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U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

PAGE: 7 RUN DATE: 07/06/87 RUN TIME: 08:34:40

M.2 - SITE MAINTENANCE FORM

		* ACTION:	
EPA ID : ALD980559470			
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CITY : GRAYSVILLE	ZIP: 35073	*	
CNTY NAME: JEFFERSON	CHTY CODE : 0	73 *	•
LATITUDE : 33/37/36.0	LONGITUDE : 086/58/06	0 */	//
LL-SOURCE: R	LL-ACCURACY:	* _	-
SMSA : 1000	HYDRO UNIT: 031601	1 *	
INVENTORY IND: Y REMEDIAL INC	D: Y REMOVAL IND: N FED FAC IND:	N *	- -
NPL IND: N NPL LISTING DATE	E: NPL DELISTING DATE:	*/	/
SITE/SPILL IDS:		#	
RPM NAME:	RPM PHONE:	*	
SITE CLASSIFICATION:	SITE APPROACH:	*	
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U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

AGE: 8
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M.2 - PROGRAM MAINTENANCE FORM

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REGION: 04 STATE : AL

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

PAGE: 9 RUN DATE: 07/06/87 RUN TIME: 08:34:40

M.2 - EVENT MAINTENANCE FORM

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PAGE: 10 RUN DATE: 07/06/87 RUN TIME: 08:34:40

M.2 - EVENT MAINTENANCE FORM

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M.2 - EVENT MAINTENANCE FORM

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REGION: 04 STATE : AL

WALTER JIM RESOURCES FLAT TOP NEBO MINE

SITE:

U.S. ENVIRONMENTAL PROTECTION AGENCY OFFICE OF EMERGENCY AND REMEDIAL RESPONSE C E R C L I S V 1.2

PAGE: 12 RUN DATE: 07/06/87 RUN TIME: 08:34:40

M.2 - COMMENT MAINTENANCE FORM

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	WARRIOR RIVER, FIVE MILE CREEK AND	*		 *
002	COAL CREEK.	*	_	*

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C. CITY	~	- 1	D. STATE			E. ZIP CO	DE	
Grausville (Tellerso	n (o.)	AL			35-4	44	
		II. TENTATIVE						
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REC	OMMENDATION			MARK'X'	EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED NO HAZA	\RD							
B. INVESTIGATIVE ACTION(S) NEE	DED (If yes, com	plete Section III.)	····					
C. REMEDIAL ACTION NEEDED (II		·						
ENFORCEMENT ACTION NEEDS: D. be primarily managed by the EPA of is anticipated.),	D (if yes, specify or the State and w	in Part E whether the hat type of enforcement	et case will ent action					
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B. PROPOSED INVESTIGATIVE ACT	IVITY (Detailed I	nformation)				 		
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a. TYPE OF SITE INSPECTION								
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MANHOURS FOR REMEDIAL ACTIVITIES

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AMANHOURS FOR REMEDIAL ACTIVITIES

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ACTION AGENCY

ACTIVITIES

4. OTHER (epocify)

C. PRIVATE PARTIES

2. PROJECT MANAGEMENT SUMPLARY

Site Name: JIM WALTERS RESOURCES - FLAT TOP NEBO MINE
Site Number: ALD980559470
Owner: JIM WALTER RESOURCES
Operator: JIM WALTER RESOURCES
Site Status: Active Inactive Unknown
Priority: High Medium Dow None
3. FINAL DISPOSITION
I. EPS Final Review - Date: 4 5 85 Comments:
Follow Up Required Yes // No
II. ADEA Review - Date: 4/6/85 SCM Comments:
,
Follow-up Action Required /_/ Yes // No

III. Final Disposition: Review & revise Date: Edited & correct Date: Transmitted Date:
File close-out Date: Initiate site
inspection Date:
4. ADDITIONAL COMMENTS (ONGOING & FINAL)

RCRA 3012 SITE INSPECTION REPORT

FOR

JIM WALTER RESOURCES/FLAT TOP NEBO MINE
ALD980559470
GRAYSVILLE, ALABAMA
SITE INSPECTION
NO VEMBER 7, 1984

Presented to:

Alabama Department of Environmental Management Montgomery, Alabama

Presented by:

Environmental Protection Systems, Inc.
Jackson, Mississippi
Pensacola, Florida
Mobile, Alabama

Project No. 1.84.174.01 April, 1985

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1.0 EXECUTIVE SUMMARY

The Flat Top Nebo Mine, presently owned by Jim Walter Resources of Brookwood, Alabama, has been used as a coal mine since approximately the 1890's. This mine is located in northwest Jefferson County approximately 5 miles northwest of Graysville. Alabama, and is surrounded on three sides by Locust Fork River. This mine is presently idle, but runoff is still regulated by NPDES permit. CERCLA notification was submitted for over 55 gallons of solvents/oil residues in cans buried in the mine overburden. Further investigation revealed that this notification was for the empty cans that had a possible film or residue remaining on the interior. Several impoundments are present to control surface drainage and runoff for pretreatment prior to discharge. One of these is below the coal washer which contains primarily coal fines and a small amount of water. A second one in the western site limits controls surface drainage and runoff through the rest of the site including the waste piles of mining overburden. Sediment and water samples were obtained from these two areas and tested for acid extractable and base/neutral organics, EP Toxic and total metals, cyanide and volatile organics. No organic compounds were detected. Trace heavy metals, specifically arsenic and lead, were present in small amounts in some samples as well as low levels of cyanide. Since the mining overburden is excluded from RCRA regulation at the present time and the runoff is regulated by NPDES permit, and no organic compounds were found. the recommendation for this site is no further action at this time.

2.0 BACKGROUND

2.1 Location

The Jim Walter Resources/Flat Top Nebo Mine (ERRIS listing ALD980559470) is located on Route 1 in Graysville, Alabama 35444, in Jefferson County. Latitude is 33°40'00", longitude 087°01'23". State and local locations maps for the site are in Exhibit 2.1. The site is located approximately 5 miles northwest of Graysville on Flat Top Mountain and is surrounded on three sides by a bend in Locust Fork Creek.

2.2 Site Layout

The site is an inactive underground coal mine. Facilities include an office, maintenance shops, coal washer, and railcar loading facilities. Several impoundments are used to control surface drainage and runoff. One impoundment is near the coal washer and another impoundment is located approximately 1/2 mile to the southwest. Waste piles of mining overburden are evident throughout the site. A site layout drawing is attached in Exhibit 2.2.

2.3 Ownership History

The current owner and most recent operator of the site is Jim Walter Resources, Inc., Mining Division, Highway 216, P. O. Box 113 Brookwood, Alabama 35444. The mine is presently idle. Past owners and operators of the site were not verified, but according to information received from Jim Walter Resources, the mine has been operated since before 1900.

2.4 Site Use History

This site is an underground coal mine first operated before 1900 and presently idle. In 1981, a CERCLA 103C notification was submitted for the potential presence of over 55 gallons of solvents and oils in the form of residues in empty cans and spillage. Empty cans were said to be buried in the mining overburden waste pile. All other mining overburden is excluded from RCRA solid waste regulation at this time.

2.5 Permit and Regulatory History

Although this mine is presently idle, all surface runoff is still regulated by NPDES permit. Several outfalls exist for several surface impoundments. One surface impoundment received wastewater from the coal washer, the other surface impoundment is primarily to control site runoff through the mining overburden.

In 1981, a CERCLA 103C notification was submitted for the possible presence of over 55 gallons of solvents and oil residues in cans and possible spillage over the life of the mine. Empty cans are mixed in the waste pile with mining overburden. Surface drainage through this mining overburden is directed to a series of impoundments which are regulated by NPDES permit.

2.6 Remedial Actions to Date

No remedial or emergency corrective actions are known for this site.

2.7 Summary Trip Report

EPS conducted a RCRA 3012 site inspection (with limited sample acquisition) of Jim Walter Resources/Flat Top Nebo Mine in Graysville, Alabama, Jefferson County at 8:30 a.m. on November 7, 1984. Mr. Winston McGill, Environmental Coordinator, was contacted prior to the visit and accompanied the EPS on the inspection. The EPS chief inspector was Mr. Paul J. Bierstine with assistance from Mr. Billy A. Warden of the Jackson, Mississippi, office. Sampling commenced at approximately 9:30 a.m. first area looked at was a surface impoundment where pH adjustment for NPDES monitoring normally takes place. This impoundment receives discharge from surface mining overburden and former waste areas. Water samples were obtained for acid extractable and base/neutral organics, EP Toxic and total metals, cyanides, and VOA. Water temperature was 190C with a pH of 4.2 standard units. Next a sediment composite was obtained from this impoundment with jars being obtained for organics, EP toxic and total metals, and cyanide. This surface impoundment is located on the western side of the property nearest Graysville Road and Locust Fork River. the team observed a combination waste pile and surface impoundment near the coal washer which is located near the main office. This area received mining overburden, waste coal fines, and coal washer water. Some of the solvent drums in the CERCLA notification may also have been disposed here. Again, a water grab sample was obtained for the same parameters as previously listed and a sediment composite was also obtained. Water temperature was 190°C and the pH in this impoundment was 3.1. sample (using clean sampling equipment) was obtained of natural soil for background parameters. This sample was taken near the NPDES outfall on the east side of the coal washer. The sample materials were taken from the top

6 inches of native soil below the organic layer for acid extractable and base/neutral organics, EP toxic and total metals, and cyanide.

All samples were preserved and prepared for transport to the EPS lab in Jackson, Mississippi. A short closing interview was conducted with Mr. McGill and we indicated that follow-up telephone interviews may be required to complete the inspection report.

3.0 ENVIRONMENTAL SETTING

3.1 Topography

A copy of the topographic map covering the area around the mine is included in Exhibit 2.1. The site is located in the Warrior Basin District, Cumberland Plateau Section of the Appalachian Plateau Province. Warrior Basin is a submaturely-to-maturely dissected synclinal sandstone and shale plateau of moderate relief. Coal deposits are significant in the basin. Elevations near the Flat Top Nebo Mine vary from 300 feet above mean sea level along Locust Fork River to elevations around 400 feet near the coal washer on Flat Top. Flat Top Mountain is a knobby circular ridge remnant surrounded on the north, west and south sides, by a bend of Locust Fork River. Slopes vary from nearly level to moderately steep with all drainage being directly into Locust Fork River.

3.2 Surface Waters

Several surface impoundments on-site regulate and control a significant amount of surface drainage from the site as a result of regulated coal-mining activities. Site drainage is north, west and south; running a short distance to the Locust Fork River which loops around 3 sides of the site. Locust Fork River is part of the Warrior-Tombigbee-Mobile River Basins. Locust Fork River is controlled by a series of locks and dams and does support barge traffic in this area.

· 3.3 Geology and Soils

A copy of a geologic map on quadrangle base covering the vicinity of the site is included in Exhibit 3.3. Outcropping at the surface of the site is

a silty, loamy soil derived from the underlying Pottsville Formation. These soils are derived from interbedded sandstone, siltstones, and shales and generally less than 20 feet thick. These soils absorb only small quantities of water, due to the silty nature and generally steep slopes that facilitate rapid runoff. The Pottsville Formation and Warrior Basin consist of interbedded sandstone, siltstone, and shales that develop topographic features of moderate relief with some flat plateau remnants deeply incised valleys and cliffs in several areas. The following with description of the Pottsville formation was taken from Engineering Geology of Jefferson County, published by Geological Survey of Alabama in 1979. "The Pottsville Formation in the Warrior Basin includes a basal conglomeritic sandstone that is composed of scattered rounded quartz pebbles in a The basal conglomeritic fine-to-coarse-grained quartz sand matrix. sandstone is thinbedded to massive, ranges from 100 to 500 feet in thickness, and is exposed on the cliffs along Rock and Sand mountains. Overlying the basal conglomeritic sandstone is approximately 600 feet of thin-to-medium-bedded shale containing thin-to-thick-bedded siltstone and sandstone and four thin coal beds. The sandstone and siltstone may occur in units as much as 40 feet thick.

Overlying the lower shale sequence is a shale and sandstone sequence containing several thin-to-thick-bedded coal seams. The lower half of this sequence contains primarily thin-bedded-to-massive sandstone and interbedded shale, coal, and siltstone. The upper half contains primarily thin-to-thick-bedded shale with interbeds of thin-to-thick-bedded

sandstone, coal, and thin-bedded siltstone. The total thickness of the Pottsville Formation in the Warrior Basin district of Jefferson County is approximately 2,800 feet".

3.4 Groundwater

Groundwater in the Pottsville Formation in the Warrior Basin District exists in the sandstone and residual soils and in openings along joints, faults, and bedding planes. Except where fractured, the coal, shale, and siltstone are relatively impermeable. They usually do not yield significant quantity of water to wells. The water table ranges from 10 to 50 feet below the surface. The quantities suitable for domestic needs generally occur at depths of less than 200 feet. Yields to most wells in the areas are less than 10 gallons per minute.

3.5 Climate and Meteorology

General Description: Humid, subtropical, mild winters, hot summers, precipitation during all months. Snowfall seldom; no average monthly temperatures below freezing. Seasonal average temperatures from 45°F to 78°F.

Precipitation: Mean annual precipitation 53.2 inches; mean annual evaporation 34.5 inches; mean annual net 18.8 inches. One year 24-hour rainfall approximately 3.5 inches. Maximum recorded 24-hour precipitation 8.8 inches; Mean annual snowfall 1.4 inches.

Wind Data: Prevailing wind direction north; mean wind speed 7.3 mph.

3.6 Land Use

The Flat Top Nebo Mine is located on the edge of the Warrior Coal Basin in northwest Jefferson County. This area is heavily engaged in both above and underground mining of coal which include mines in the active, inactive, and abandoned categories. Some areas have been stripped mined with resulting large waste piles of mining overburden. Scattered small communities dot the countryside. Rail service in the areas serving the coal mines is fairly extensive as well as barge traffic on the navigable waterways. A detailed land use map of the area which is colored-keyed at 1:250,000 scale is available in the Environmental Data Inventory, State of Alabama, 1980, published by the Corps of Engineers.

3.7 Population Distribution

Although Jefferson County has the highest population density of any county in Alabama, this area of Jefferson is sparsely inhabited, primarily along the main roads, due to the presence of many active and inactive coal mines. The closest large community is Graysville, which is approximately 5 miles southeast of the site. Several small scattered communities lie within 3 to 5 miles of the site both in Jefferson and Walker County which lies across the Locust Fork River. The closest residences to the site are approximately 1/4 mile away on the opposite side of Locust Fork River in Walker County and adjacent to the main highway.

3.8 <u>Water Supply</u>

Two community water systems bracket the site: the West Jefferson water system approximately 3 miles to the southwest, and Graysville water system approximately from 3 to 5 miles to the southeast. Both of these water

systems purchase water from Birmingham which utilizes the distant source of the Cahaba River which is over 12 miles away to the southeast. On-site water supply for coal washing activities most likely relies on surface water sources, notably Locust Fork River or underground mine dewatering sources. Jefferson County does have a separate industrial water supply from the Inland Reservoir, which is primarily used as cooling and process water for industrial use. Some large industrial users in Jefferson County have supplemental groundwater supplies in the form of large diameter on-site wells utilizing various aquifers. The closest of these is believed to be the Alabama Power Company, Miller Steam Plant, which approximately 3 miles south of the site.

3.9 Critical Environment/Endangered and Threatened Species

Species Common Name	Range	Statu	<u>s</u>
Indiana Bat	Central Alabama	Endangered	(Fed)
Gray Bat	Eastern 2/3 Alabama	Endangered	(Fed)
Bald Eagle	Statewide	Endangered	(Fed)
Golden Ěagle	Statewide	Endangered	
Red-cockaded Woodpecker	South of Tennessee River	Endangered	(Fed)
Peregrine Falcon	Statewide	Endangered	(Fed)
0sprey	Statewide	Endangered	(AL)
Flattened Musk Turtle	Streams of Black Warrior River System	Threatened	(AL)

(Reference: Environmental Data Inventory, State of Alabama, U.S. Army Corps of Engineers, Mobile District, 1981)

4.0 WASTE TYPES AND QUANTITIES

4.1 Waste Quantities

Unknown large waste quantities at the site are primarily mining overburden and coal fines from coal washing activities which are collected in several surface impoundments. A CERCLA notification for this site listed possible solvents in the waste piles; however, no solvents were detected in the samples obtained from these areas. The mining overburden, which is returned to the mining site, is excluded from RCRA regulation. All surface drainage and runoff from this site is regulated under NPDES permit for various outfalls.

4.2 Waste Disposal Methods and Locations

Two primary areas of waste disposal are present and were sampled as shown in the site layout sketch in Exhibit 2.2. One impoundment controls runoff from the coal washer area in the main above ground processing area. The second impoundment controls the majority of surface runoff from the exposed mining activities and also regulates runoff from the mining overburden waste pile. Drainage from both of these areas constitutes 2 outfalls which are monitored under NPDES permit and are subject to surface mining regulations.

4.3. Waste Types

No organic compounds or volatile organics were detected in the samples obtained. Low levels of some trace metals, notably arsenic and lead, were detected in some of the sediments obtained from these impoundments. Additionally cyanide was present in both water and sediment samples obtained. However, as noted above, this mining overburden is apparently excluded from RCRA regulation and the drainage from these materials is regulated by NPDES monitoring.

5.0 LABORATORY DATA

5.1 Summary

Laboratory results and QA/QC data are presented in the attached Exhibit 5.1 while approximate sample locations are shown on Exhibit 2.2. Sample numbers and descriptions are as noted below:

Sample Number	Description
NM-WA1-WP	Water sample from coal washer surface impoundment at main office near gate.
NM-SD1-WP	Coal washer impoundment sediments (primarily coal fines).
NM-SD2-WP	Duplicate split of NM-SD1-WP for QA/QC.
NM-S01-AS	Natural soil sample for background near NPDES outfall on east side of coal washer.
NM-WA2-SI	Water sample from surface impoundment for drainage control and runoff on west side of plant.
NM-SD3-SI	Sediment sample from surface impoundment near NPDES west outfall.

5.2 Quality Assurance Review

All sample collection, sample preservation and chain-of-custody procedures used during this investigation were conducted in accordance with the standard operating procedures as specified in the Quality Control/Quality Assurance Plan for the Analytical and Environmental Division of Environmental Protection Systems, Inc., revised August 31, 1984. All laboratory analyses and quality assurance procedures used during this investigation were conducted in accordance with standard procedures and protocols as specified in the Quality Control/Quality Assurance Plan for the Analytical

and Environmental Division of Environmental Protection Systems, Inc., revised August 31, 1984, or as specified by the existing United States Environmental Protection Agency standard procedures and protocols for the contract analytical laboratory program. No deficiencies or suspect data were noted.

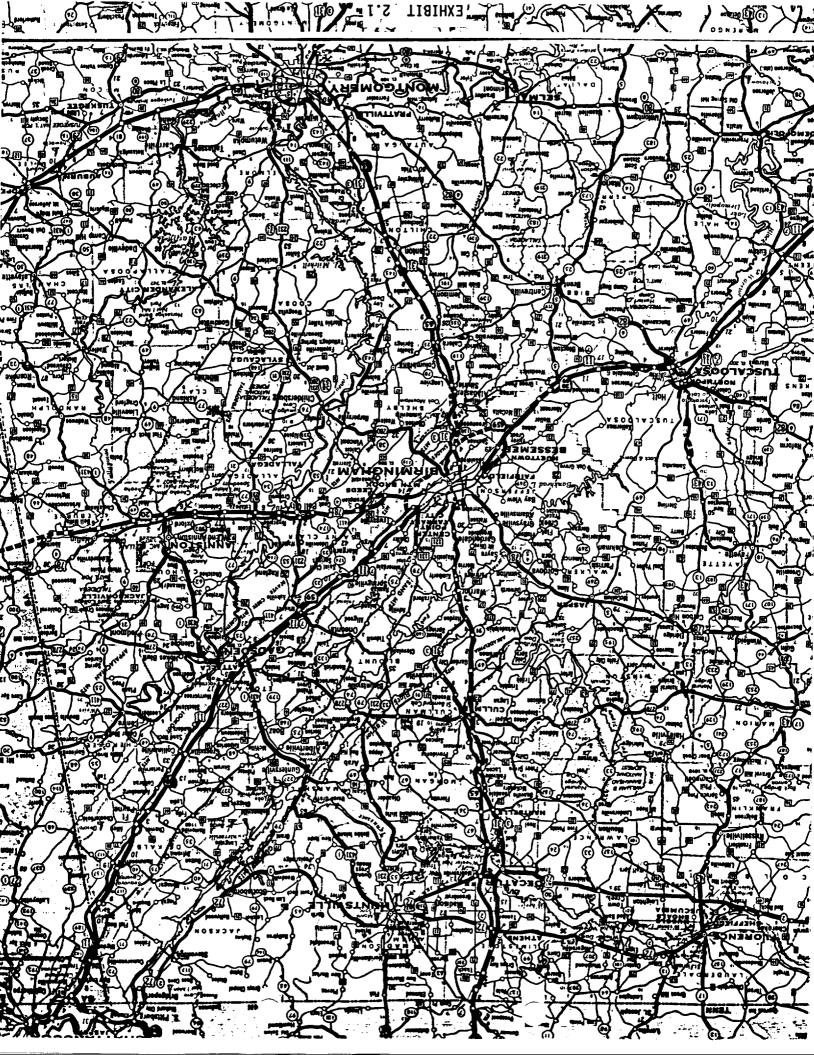
6.0 TOXICOLOGICAL/CHEMICAL CHARACTERISTICS

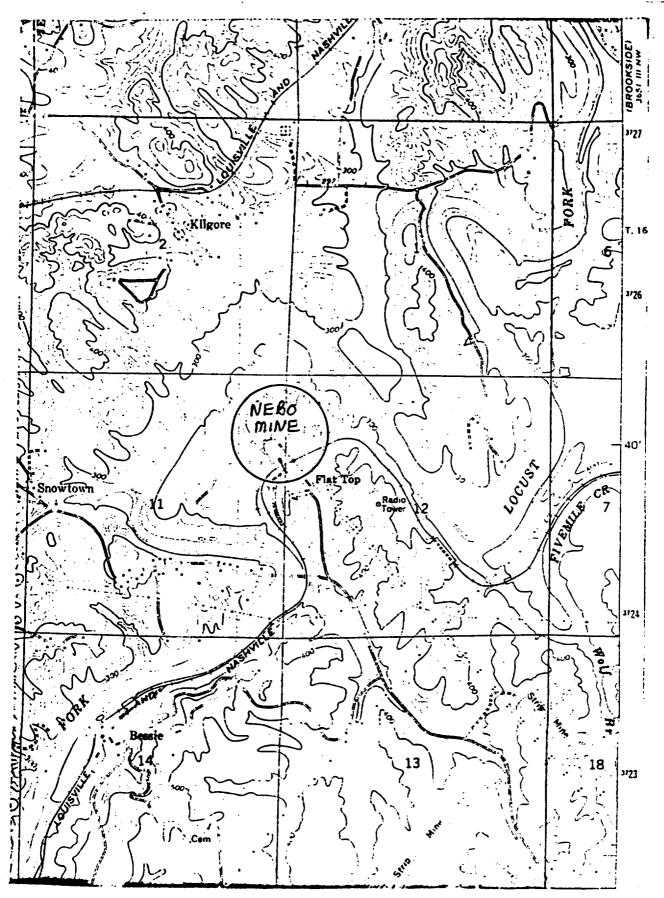
In general, arsenic, lead, and cyanide were reported in several samples above the detection limit. No organics were found in the samples obtained which were reported on the CERCLA 103C notification. Although mining overburden returned to the mine site is excluded from RCRA regulation, the SAX toxicity ratings for arsenic, lead, and cyanide are included in Exhibit 6.0.

7.0 CONCLUSIONS AND RECOMMENDATIONS

This inactive coal mine was investigated due to the submittal of a CERCLA 103C notification for small amounts of organics and solvents disposed in the waste piles at the mine over a period of years. The situation is probably typical of most coal mines in the area and this investigation was one of several coal mines visited to investigate this situation. organic compounds above the detection limits were noted in any of the Trace amounts of heavy metals, as well as arsenic and samples obtained. cyanide, were found in the water and sediments such as is typical of most coal mining activities. The mining overburden generated as a result of coal mining and placed back on the mine site is excluded from RCRA regulation. However, this does not preclude potential regulation under CERCLA. For the above listed reasons and since surface runoff from the site is presently regulated by NPDES discharge permit, the recommendation for this site is no further action at this time.

EXHIBITS





U.S.G.S. 7% MIN. SERIES

Doća, ALABAMA

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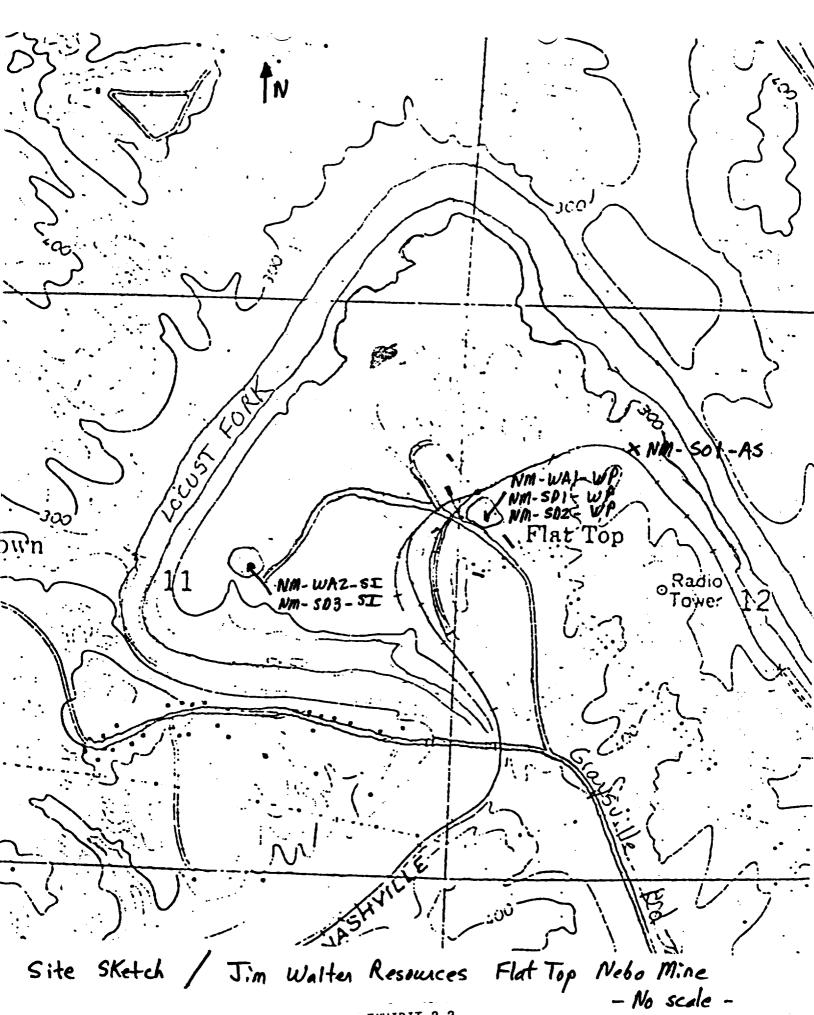
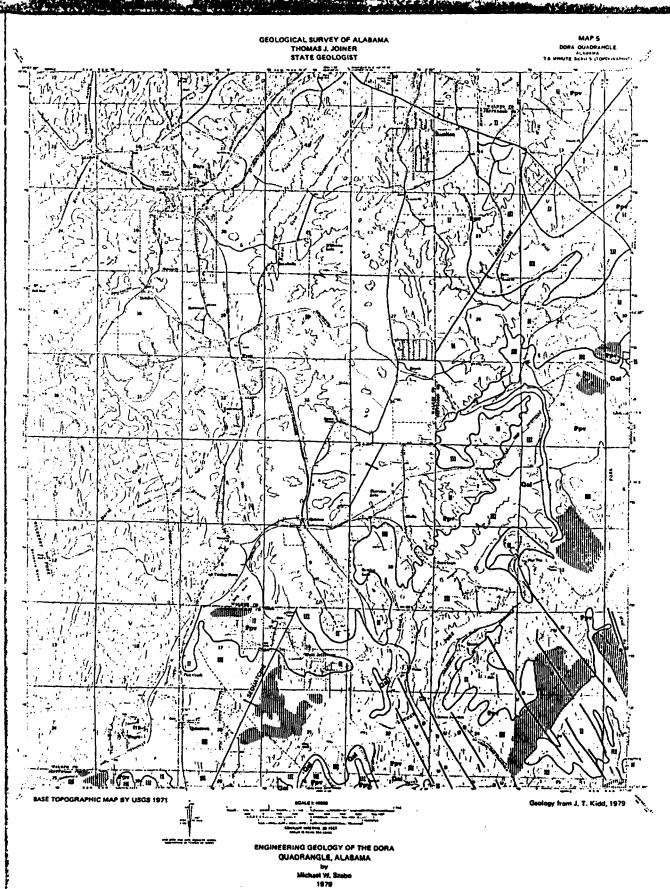


EXHIBIT 2.2

Table 1.-Generalized geologic section of rocks exposed in Jefferson County, Alabama

En	System	Geologi	ic unit	Enpayed shickness (feet)		Lithology		
		Birminghem Vollay district ¹ NE SW	Coose and Cahebe Ridge and Voltey districts	Birmingham Valley district ¹ /	Coose and Cahebo Ridge and Valley districts			
	Quaternary	Alterial and lower terroce deposits	Altunial and lower terrate deposits	0 - 30	0. 30	Gravel, sand and site, unconsolidated. Adjacent to the last streams and reers.		
Consinc		Higher terrace deposits	Higher turrace deposits	0 10	0 - 10	Send and gravel, unconsolidated, containing woll-rounded a blos of chart and quartitis, Dobut in the northeastern part the county.		
Mesone	Crotucados	Caker Farmation of the Tuecalasse Group	Absent	8. #0		Send with lorses of clay; gravel at the base, it occurs as out liers in the southern part of the county. Depouts of innonits occur locally where Coher overles deeply weathered limitstone.		
	Pennsylvenian	Pattoville Fermetien [‡]	Pattiville Farmation	2,800+1	\$ _, 100+	Sandstone, pilotone and shale, interbedded with compromerate, cost and underclay, orthogusetains at the base and subgraywackie at the base. Shale, medium to dark-gray, silty; numerous cost bads and underclays.		
		Parkwood Furmation	Parkwood Fermation	0 - 1,200	1,400 · 2,400	Sendatona, light- to dark-gray, thin- to medium-bedded, with interbedded shale and siltatona.		
		Floyd Shake	Floyd Shale	800 800	1,000+	Shale, clayer; dark-gray to greenish-gray, fissile; tocativ occurring bods of siltstone, in Birmingham and Cohabe Valleys the other Mississippion formations grade into Floyd Shale,		
	:	Samper Limentum		0 - 150		Limestens, medium- to light- gray, medium-bedded, pri- mently biodusis or cellis; some shale. Absent in Cahaba Valley.		
	Missistepten	Hermelle Senditone	Harteelle Senditone	Ø- 120	0 · 120 Å	Sandstone, light-brawn, well- ported, fine- to medium- grained, medium- to very shin-badded. Sitty in Cahaba Valley.		
		Pride Moun- tain Ferma- tion	Pride Moun- tain Ferme- tion	100-	100 ·	Clay-shale, dark gray, fisale; lecally accurring thin sit- stone, sandtone and basel adfinite limestone.		
		Tuestambie Limestene	Abunt	70 80		Limestone, medium-gray, arystalline, sublishegraphie, biocles- sic, locally cherty,		
		Fort Payne Chart	Fort Payne Chert	99 - 200	90 - 200	Chert, grayish-orange, thin- to medium-bedded; minor limestone units and shale partings.		
		Moury Formation	Maury Fermetton	1. 3	1. 3	Shele, grayish-red to greenish-gray, thinly laminused.		
		Chattanooga Shale	Chattanooga Shele	8- 26	6- 70	Shele, brownish-black, highly fissile, Generally absent,		
Pairezoc	Ovvenien	Freg Mountain Sandstone	Frog Mountain Sandstone	0 - 36	12 - 14	Sandstone, Right-gray to tan, medium- se thick-bedded, contains pebble complemente.		
	Siturian	Red Mountain Formation	Red Mountein Formation	200 - 800	●· 360	Sandstone, dark-reddish-brown to elliw-gray, inserbedded with sitestone, shale, shin bods of limestone, and lemestic beds up to 30 feet shick.		
		Sequetchie Fermation	Drobenisten	0. 3		Limetrone, moderane-red to yellowish-gray mortied, for- silferena, interbadded with graylsh-red elitatene. In Cahsbo Valley the firm- stones of the upser part of she Kinse and serving Ordo- vician are not differentisted. They are fight to very dark		
	·	Chickenouge Limestone	undid feveralesed	200 - 500	1,000+	Linestone, light-gray to bis- leb-gray, raddish to greenish- gray next she base, thin- to medium-badded, sublithops-		
	Ordoviolen	Attalle Chert Conglements	,	e so		shie, froeliferous; shie bads of shafe, our bentoning. - regionary of the control of the contro		
		Knon Group unditionanties-5				James Valley. Describe, medium- te dark-		
			Lower part of Knex Group undifferentiated	2,000+	1,600+	gray, 1 1. k 1-odded, cherty in the lower part of Knox. The Oblamite, madis- 11. dark- upper beds of Knox are defend the linestsons and line- stern.		
	1	Ketone Delemite	Ketone Delemite	0 - 400	400 - 800	Dysomite, brevmish-gray, thick-bedded, chart-free, crystelline,		
	Condition	Consump Formulan	Absent	1,100 - 1,900		Limettone, derk- to brewnish-gray, subfithographic, medium- to shin-bedded, with light-alive to medium-gray shele. Signifi- cent megnishmi content in upper part of formesion in northern part of county.		
		Absent Fount Mauntain districts of th	Romo Formation		802	Shale, greenish-gray to grayish-rad, thirt-bedded. Exapeuros rare in Jefferson County. Crops out only in Cahaba Yalley.		

*Includes the Murphress Valley and Blownt Mountain districts of the Combarland Placeou province.



Salahan manada a salah baran

 $s_{i} = \{s_{i}^{(i)}, \ldots, s_{i+1}^{(i)}\}$

EXPLANATION

Qui Alluvium and low terrace deposits					
Ppr Posswille Formation					
Contacts					
Anticline, exial trace					
Synctine, sailed trace					
Fault, direction and amount of displacement unknown					
Mormel fault: U, upthrown side; D, downthrown side; dashed where inferred, dotted where concealed					
Strike and dip of bads					
Horizontal bads					
Soils associated					
B Silty loam with Pottsville Formation					
Silty loam with shale fragments					
Circumiti					

St. A. Berghamp Box persons by

PWSIO61 01.31

11/08/84

MODEL STATE INFORMATION SYSTEM PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

PWS INVENTORY REPORT

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C

STORAGE CAPACITY.....800,000

CELECTION EVEDACE E	TIE

P4S-ID 0000748	SYSTEM NAME		DARD	904	NIII ATTAN CEBUER	
	ACTIVITY CODE					
	REGULATE SY	REGULATED BY STATE		COP	PLIANCE CYCLE.	
	CONSECUTIVE INDICATOR		SACTI ONLY			TIVE PWS
	DEACTIVATION REASON REPORT REQUIRED					
	INTERSTATE CARRIER					11/19/84
SOURCE DATA						
SOURCE	= -					PERMANENT SOURCE
01	UNITE OTHER DAME	ATER-SURFACE SOURCE			RIVER BASIN : LATITUDE 000.	03.00 LONGITUDE 000.00.00
	TREATMENTS: AERATION.	SEDIMENT	AT10N	SOFTENING.	INCHMA O	ATION UNTREATED
			ONO			DE ADJUSTMENTO OTHER
	COAGULATI	ON CORROSION	N CONTROLO	IRON REMOV	AL DISINF	ECTIONO
	PRIMARY SOURCE	PURCHASED WATER-SUI	RFACE SOURCE	וטא	BER OF SOURCES	
ADDRESS DATA						
		GRAYSVILLE WATER BOX	ARD			
	OWNER ADDRESS:					
		GRAYSVILLE	AL	35073	OWNER TYPE:	MUNICIPALITY
	MAILING NAME:	GRAYSVILLE WATER BOA	ARD			
		ATTH DAVE PATTON, SI	. Equ			
4.4	MAILING ADDRESS:	F O BOX 130 Graysville	AL	35073		
	PLANT AREA CITY NAME	MANUAL FILE REF	PHONE NUMBE	R POSTAL CO	DDE COUNTY:	JEFFERSON
						NORTHWEST REGION
	CMAN 5749476	01000R 1000R	205-674-564	3 AL	DISTRICT:	

PWSID61 01.01 "

MODEL STATE INFORMATION SYSTEM PUBLIC WATER SYSTEM INVENTORY SUBSYSTEM

DATE 11/27/34

TROGER YRCTIEVAL SWE

PAGE 15

			SELECTION	EXTRACT	FILE		
P#S-ID	0030765	PLANT TYPE	ACTIVERESULATED BY STATI TORCONSEC MONITORING N	:	PLANT BEG COMPLIANC NUMBER OF DEACTIVAT LAST REPO	IN DATE. E CYCLE. CONSECUTION DATE. RT DATE.	
SJURCE	SOURCE 01	NAME: GRAYSVIL	LE: BHAM D WATER-SURFACE SOURCE	NUMBER OF WELL WELL BEGIN DAT SELLER ID	REVIR 00/005	BASIN :	PERMANENT SOURCE CAMABA RIVER DO.OD LONGITUDE 000.00.00
			DRINATION O FILTRAT	O	SOFTENINGO TASTE/JDORO IRON REMOVALO	FLUORI	ATIONO UNTREATED DE ADJUSTMENTO OTHER ECTIONO
		PRIMARY SOURCE	PURCHASED WATER-SI	JRFACE SOURCE	NUMBER OF	SOURCES	
ADDRESS	DATA		E: #EST JEFFERSON WATE 2: KENNETH MCCARTY/ M/ 3: RT 2 QUINTON	ACYA	130 G4NE	R TYPE:	MUNICIPALITY
			E: WEST JEFFERSON WATS 2: ATTN CARL COOPER, S 3: RT 2 QUINTON	SUPT.	130		
		PLANT AREA CITY NAM	E MANUAL FILE REF	PHONE NUMBER 205-674-6454		COUNTY: REGION: STRICT:	PEFFERSON NOIDAR TEAUNTRON
SURVEY	DATA		E CONNECTIONS818 OF METERS818		DUCTION13		DESIGN CAPACITY200,000 EMERGENCY CAPACITY50,000 STORAGE CAPACITY150,000

· 网络阿拉勒斯特·约



P O Box 20382 106 Upton Dr Jackson Ms 39209 601 922-8242

Pensacola, FI 32506 904 944 0301

ANALYTICAL REPORT

Date:

February 6, 1985

Site:

JWR Flat Top Nebo Mine

Graysville, Alabama

Matrix: Water, Soil and Sediment

Client: Alabama Department of

Environmental Management

Date Received:

November 9, 1984

EPS Lab No.	EPS Field Identification
84113979	NM-WA1-WP
84113980	NM - SD1 - WP
84113981	NM - SD2 - WP
84113982	NM - S01 - AS
84113983	NM-WA2-SI
84113984	NM-SD3-SI

Attached sheets list results of our analysis of above samples for: Arsenic, Barium, Cadmium, Chromium, Lead, Mercury, Selenium, Silver, Cyanide, Base/Neutral Extractables, Acid Extractables Analytical Reference No.: and Volatile Organic. 85.1.167

Werbert A. Armeters
Associate Officetor of Analytical Services

EXHIBIT 5.1



P O Box 20382 106 Upton Dr Jackson, Ms. 39209 601 922-8242

7215 Pine Forest Rd Pensacola, Fl 32506 904 944-0301

ANALYTICAL REPORT

Date: February 6, 1985

Site: JWR Flat Top Nebo Mine

Graysville, Alabama

Matrix: Water, Soil and Sediment

Client: Alabama Department of

Environmental Management

Date Received: November 9, 1984

Spiking and Recovery Data

EPS Lab No. 84113985

Parameter	Spiking Level (ppm)	Percent (%) Recovery
Arsenic	0.04	102.0
Barium	2.00	104.3
Cadmium	0.10	100.0
Chromium	0.10	100.0
Lead	0.04	89.0
Mercury	0.002	96.9
Selenium	0.40	95.0
Silver	0.50	102.0
Cyanide	50.0	108.0
Hexachlorobenzene	100.0	99.1
Pentachlorophenol	100.0	113.0

Herbert A. Johnston

Associate Director of Analytical Services



P.O. Box 20382 • 160 Upton Drive • Jackson, MS 39209 Telephone: (601) 922-8242

7215 Pine Forest Road • Pensacola, Ft 32506 Telephone: (904) 944-0301

LABORATORY REPORT

Revision 1 (3/15/85)

85.1.167

CLIENT: Alabama Dept. of Environmental Mgmt.

COLLECTED BY:

EPS (174)

LOCATION: Montgomery, Alabama

DATE COLLECTED:

11/07/84

DATE: 02/06/85

DATE RECEIVED:

11/09/84

DATE ANALYZED:

INVOICE NO.:

To be invoiced/bp

02/05/85

LABORATORY SAMPLE IDENTIFICATION

84113979 - NM-WA1-WP

84113980 - NM-SD1-WP

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84113981 - NM-SD2-WP 84113982 - NM-S01-AS

۸ عی C111.

	H20	SEN	SEP -	5/10
ANALYSES	3979	3980	TION NUMBER■ 3981	3982
Arsenic, Total, mg/l	0.028			
Arsenic, Total, mg/kg		0.006	0.010	0.010
Barium, Total, mg/l	<0.5			
Barium, Total, mg/kg		<0.5	<0.5	<0.5
Cadmium, Total, mg/l	<0.01			
Cadmium, Total, mg/kg		0.01	<0.01	0.01
Chromium, Total, mg/l	<0.01			
Chromium, Total, mg/kg		<0.01	<0.01	<0.01
Chromium, Hexavalent, mg/l	<0.01			
Chromium, Hexavalent, mg/kg		<0.01	<0.01	<0.01
	COMMENT			

Analyses conducted in accordance with EPA Method 604, 625, Federal Register, Volume 44, December, 1979. Analyses conducted in accordance with 40 CFR, Part 261, May, 1980, Test Methods for Evaluating Solid Waste. Metal analysis reported on a dry weight basis. All samples collected under RCRA 3012 Program at JWR Flat Top Nebo Mine, Graysville, Alabama.

CERTIFICATION



DIRECTOR, ANA



IENTAL PROTECTION SYSTEMS, INC.

P.O. Box 20382 + 160 Upton Drive + Jackson, MS 39209 Telephone: (601) 922-8242

7215 Pine Forest Road • Pensacola, FL 32506 Telephone: (904) 944-0301

Revision 1 (3/15/85)

LABORATORY REPORT

CLIENT: Alabama Dept. of Environmental Mgmt.

COLLECTED BY:

EPS (174)

LOCATION: Montgomery, Alabama

DATE COLLECTED:

11/07/84

DATE RECEIVED:

11/09/84

02/06/85

DATE ANALYZED:

INVOICE NO.:

02/05/85

To be invoiced/bp

LABORATORY SAMPLE IDENTIFICATION

84113979 - NM-WA1-WP

84113980 - NM-SD1-WP

84113981 - NM-SD2-WP

84113982 - NM-S01-AS

-	Heo	SEP	SED	SOIL
		IDENTIFICAT	ION NUMBER	
ANALYSES	3979	3980	3981	3982
Lead, Total, mg/l	<0.001			•••
Lead, Total, mg/kg		0.016	0.011	0.012
Mercury, Total, mg/l	<0.0005			
Mercury, Total, mg/kg		<0.0005	0.0008	<0.0005
Selenium, Total, mg/l	<0.001			
Selenium, Total, mg/kg		<0.01	<0.01	<0.01
Silver, Total, mg/l	<0.01	••		
Silver, Total, mg.kg		<0.01	<0.01	<0.01
Cyanide, Total, mg/l	0.614			·
Cyanide, Total, mg/kg		16.2	11.7	2.5
	COMMENT			•

Analyses conducted in accordance with EPA Method 604, 625, Federal Register, Volume 44, December, 1979. Analyses conducted in accordance with 40 CFR, Part 261, May, 1980, Test Methods for Evaluating Solid Waste. Metal analysis reported on a dry weight basis. All samples collected under RCRA 3012 Program at JWR Flat Top Nebo Mine, Graysville, Alabama.

CERTIFICATION



SERVICES



P.O. Box 20382 • 160 Upton Drive • Jackson, MS 39209 Telephone: (601) 922-8242

7215 Pine Forest Road • Pensacola, FL 32506 Telephone: (904) 944-0301

LABORATORY REPORT

Revision 1 (3/15/85)

85.1.167

CLIENT: Alabama Dept. of Environmental Mgmt.

COLLECTED BY:

EPS (174)

LOCATION: Montgomery, Alabama

DATE COLLECTED:

11/07/84

DATE RECEIVED:

11/09/84

DATE: 02/06/85

DATE ANALYZED:

INVOICE NO.: To be invoiced/bp

02/05/85

LABORATORY SAMPLE IDENTIFICATION "

84113979 - NM-WA1-WP

84113980 - NM-SD1-WP

84113981 - NM-SD2-WP

84113982 - NM-S01-AS

	H20	SED	SEP	SOIL
	~~	IDENTIFICA	TION NUMBER	
ANALYSES	3979	3980	3981	3982
"EP TOXICITY" Extraction		Yes	Yes	Yes
Base/Neutrals Extractables,				
Screen 110, ppm	<0.01	<0.01	<0.01	<0.01
Acid Extractables, Screen 111, ppm	<0.01	<0.01	<0.01	<0.01
Volatile Urganic Extractables,				[
Screen 112, ppm	<0.01			
			 	
		İ		
			 	
	COMMENT			

Analyses conducted in accordance with EPA Method 604, 625, Federal Register, Volume 44, December, 1979. Analyses conducted in accordance with 40 CFR, Part 261, May, 1980, Test Methods for Evaluating Solid Waste. All samples collected under RCRA 3012 Program at JWR Flat Top Nebo Mine, Graysville, Alabama.

CERTIFICATION



DIRECTOR, ANALYTICAL SERVICES



NTAL PROTECTION SYSTEMS, INC.

P.O. Box 20382 • 160 Upton Drive • Jackson, MS 39209 Telephone: (601) 922-8242

7215 Pine Forest Road • Pensacola, FL 32506 Telephone: (904) 944-0301

Revision 1 (3/15/85)

LABORATORY REPORT

85_1_167

CLIENT: Alabama Dept. of Environmental Mgmt. LOCATION:

COLLECTED BY: DATE COLLECTED: EPS (174)

11/07/84

Montgomery, Alabama

DATE:

02/06/85

DATE RECEIVED: DATE ANALYZED:

11/09/84 02/05/85

INVOICE NO.:

To be invoiced/bp

LABORATORY SAMPLE IDENTIFICATION

(NPDES) runiff water

84113984 - NM-SD3-SI

	WATER	SEDIMENT
ANALYSES	3983	3984
Arsenic, Total, mg/l	0.056	
Arsenic, Total, mg/kg		0.010
Barium, Total, mg/l	<0.5	
Barium, Total, mg/kg		<0.5
Cadmium, Total, mg/l	<0.01	
Cadmium, Total, mg/kg		<0.01
Chromium, Total, mg/l	<0.01	
Chromium, Total, mg/kg		<0.01
Chromium, Hexavalent, mg/l	<0.01	
Chromium, Hexavalent, mg/kg	 COMMENT	<0.01

Analyses conducted in accordance with EPA Method 604, 625, Federal Register, Volume 44, December, 1979. Analyses conducted in accordance with 40 CFR, Part 261, May, 1980, Test Methods for Evaluating Solid Waste. Metal analysis reported on a dry weight basis. All samples collected under RCRA 3012 Program at JWR Flat Top Nebo Mine, Graysville, Alabama.

CERTIFICATION

Herbert a. Salmeton



ENTAL PROTECTION SYSTEMS, INC.

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7215 Pine Forest Road + Pensecola, FL 32506 Telephone: (904) 944-0301

Revision 1 (3/15/85)

LABORATORY REPORT

85.1.167

CLIENT: Alabama Dept. of Environmental Mgmt.

COLLECTED BY:

EPS (174) 11/07/84

LOCATION:

Montgomery, Alabama

DATE COLLECTED:

DATE:

DATE RECEIVED:

11/09/84

02/06/85

DATE ANALYZED:

02/05/85

INVOICE NO.:

To be invoiced/bp

LABORATORY SAMPLE IDENTIFICATION :

84113983 - NM-WA2-SI 84113984 - NM-SD3-SI

	H20	SED.
ANALYSES	3983	3984
Lead, Total, mg/l	<0.003	
Lead, Total, mg/kg		0.003
Mercury, Total, mg/l	<0.0005	
Mercury, Total, mg/kg		<0.0005
Selenium, Total, mg/l	<0.001	
Selenium, Total, mg/kg		<0.01
Silver, Total, mg/l	<0.01	
Silver, Total, mg/kg		<0.01
Cyanide, Total, mg/l	0.658	••
Cyanide, Total, mg/kg		5.7
	COMMENT	

Analyses conducted in accordance with EPA Method 604, 625, Federal Register, Volume 44, December, 1979. Analyses conducted in accordance with 40 CFR, Part 261, May, 1980, Test Methods for Evaluating Solid Waste. All samples collected under RCRA 3012 Program at JWR Flat Top Nebo Mine, Graysville, Alabama.

CERTIFICATION



CTOR, ANALYTICAL SERVICES



3.3

TAL PROTECTION SYSTEMS, INC.

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7215 Pine Forest Road • Pensacola, FL 32506 Telephone: (904) 944-0301

Revision 1 (3/15/85)

LABORATORY REPORT

85.1.167

CLIENT: Alabama Dept. of Environmental Mgmt.

COLLECTED BY:

EPS (174)

DATE COLLECTED:

11/07/84

DATE:

LOCATION: Montgomery, Alabama

DATE RECEIVED:

11/09/84

INVOICE NO.:

02/06/85

To be invoiced/bp

DATE ANALYZED:

02/05/85

LABORATORY SAMPLE IDENTIFICATION

84113983 - NM-WA2-SI 84113984 - NM-SD3-SI

< .l

	Hzd	54A.		
		IDENTIFICA	TION NUMBER	
ANALYSES	3983	3984	ļ	<u> </u>
"EP TOXICITY" Extraction		Yes		
Base/Neutrals Extractables,				
Screen 110, ppm	<0.01	<0.01	ļ	
Acid Extractables, Screen 111, ppm	<0.01	<0.01		
Volatile Organic Extractables, Screen 112, ppm	<0.01			
Screen 112, ppin	10.01	 	 	
	+	 	 	
		<u> </u>	1	

COMMENT

Analyses conducted in accordance with EPA Method 604, 625, Federal Register, Volume 44, December, 1979. Analyses conducted in accordance with 40 CFR, Part 261, May, 1980, Test Methods for Evaluating Solid Waste. Metal analysis reported on a dry weight basis. All samples collected under RCRA 3012 Program at JWR Flat Top Nebo Mine, Graysville, Alabama.

CERTIFICATION

Herbert a. Johnston



ARSANILIC ACID, MONOSODIUM SALT

TOXICITY DATA: orl-rat LD50:216 mg/kg ipr-rat LDLo:400 mg/kg ipr-mus LD50:291 mg/kg ivn-mus LD50:100 mg/kg CODEN: TXAPA9 18,185,71 JPETAB 80,393,44 **JMCMAR 9,221,66** CSLNX* NX#06774

Carcinogenic Determination: Human Positive IARC** 23,39,80. Toxicology Review: 85DHAX As,-,77. OSHA Standard: Air: TWA 500 ug(As)/m3 FEREAC 39, 23540,74. Reported in EPA TSCA Inventory, 1980.

THR: A human CARC. HIGH orl, ivn, ipr. See also arsenic. A grasshopper bait; a food additive permitted in the feed and drinking water of animals and/or for the treatment of food-producing animals. See arsenic compounds and aniline.

Fire Hazard: Mod. Decomp by heat to yield flammable

Disaster Hazard: Dangerous; when heated to decomp or on contact with acid or acid fumes, emits highly tox As and NOz.

ARSANILIC ACID, MONOSODIUM SALT

CAS RN: 127855 NIOSH #: CF 9625000 mf: C₆H₇AsNO₃·Na; mw: 239.05

Tetra hydrate; white odorless cryst powder, faint salty taste. Sol in water, somewhat sol in alc.

SYNS: NCI-C61176 (4-AMINOPHENYL)ARSONIC ACID SODIUM SALT ANHYDROUS SODIUM ARSANI-LATE ARSANILIC ACID SODIUM SALT **ATOXYL** SODIUM AMINARSONATE SODIUM-P-AMINOBENZENEARSO-NATE

SODIUM AMINOPHENOL ARSO-NATE SODIUM-P-AMINOPHENYLARSO-NATE SODIUM-ANILINE ARSONATE SODIUM ANILARSONATE SODIUM ARSANILATE SODIUM-P-ARSANILATE SODIUM ARSONILATE

TOXICITY DATA: scu-rat LD50:75 mg/kg scu-mus LD50:400 mg/kg scu-dog LDLo:5 mg/kg scu-rbt LDLo:200 mg/kg

CODEN: BIZEA2 184,360 2 12VXA5 9,1108, /c **HBAMAK 4,1289,35 HBAMAK 4,1289,35**

Toxicology Review: 85DHAX As,-,77. OSHA Standard: Air: TWA 500 ug(As)/m3 FEREAC 39,23540,74. Selected by NTP for Carcinogenesis Bioassay as of December 1980.

THR: HIGH scu. Poisonous. Can cause blindness. A food additive in feed and drinking water.

Disaster Hazard: When heated to decomp it emits very tox fumes of As and NOz.

ARSENIC

CAS RN: 7440382 mf: As; mw: 74.92 NIOSH #: CG 0525000

Silvery to black, brittle, crystalline and amorphous metalloid. mp: 814° @ 36 atm, bp: subl @ 612°, d: black crystals 5.724 @ 14°; black amor 4.7, vap. press: 1 mm @ 372° (sublimes). Insol in water; sol in HNO₃. See also arsenic vapor.

SYNS:

ARSENICALS ARSENIC-75 ARSENIC BLACK

COLLOIDAL ARSENIC GREY ARSENIC METALLIC ARSENIC

ARSEN (GERMAN, POLISH)

TOXICITY DATA: 3 cyt-mus-ipr 4 mg/kg/48H-I orl-rat TDLo:605 ug/kg/(35 W Preg) orl-mus TDLo: 120 mg/kg/ (preg): TER

ipr-mus TDLo:40 mg/kg/(preg):TER imp-rot TDLo:75 mg/kg:ETA orl-man TDLo:7857 mg/kg/ 55Y:SKN

orl-man TDLo:7857 mg/kg/55Y:GIT ims-rat LDLo:20 mg/kg

scu-rbt LDLo:300 mg/kg ipr-gpg LDLo: 10 mg/kg scu-gpg LDLo:300 mg/kg CODEN: EXPEAM 37,129,81 GISAAA (8)30,77 TJADAB 15,31A,77

TJADAB 15,31A,77 ZEKBAI 52,425,42 CMAJAX 120,168,79

CMAJAX 120,168,79 NCIUS* PH 43-64-886.SEPT.70 **ASBIAL 24,442,38** CRSBAW 81,164,18 ASBIAL 24,442,38

Carcinogenic Determination: Human Positive IARC** 23,39,80. Carcinogenic Determination: Indefinite IARC** 2,48,73.

TLV: Air: 200 ug/m3 DTLVS* 4,24,80. Toxicology Review: AMIHAB 21,132,60; 85DHAX As,-,77; JAVMA4 164(3),277,74; CTOXAO 5(2),151,72; ARVPAX 16,95,76; KOTTAM 11(11),1300,75; FOREAE 7,313,42; **AQMOAC #73-18,1973**: PTPAD4 1,189,76; CLCHAU 19,361,73; 85CVA2 5,63,70; PEXTAR 12,102,69; JOCMA7 2,137,60; BNYMAM 54,413,78; AMTODM 3,209,77; 85CVA2 5,250,70; 27ZTAP 3,19,69. OSHA Standard: Air: TWA 500 ug/m3 FERÉAC 39,23540,74. DOT: Poison B, Label: Poison FEREAC 41,57018,76. Occupational Exposure to Inorganic Arsenic recm std: Air: CL 2 ug/m3 NTIS**. "NIOSH Manual of Analytical Methods" VOL 1 139,140,180,188,192,196, VOL 3 S309, VOL 5 173#. NIOSH Current Intelligence Bulletin 14, 1976. Reported in EPA TSCA Inventory, 1980. THR: Human CARC. A hmn SKN, GIT. An exper TER, ETA, ± CARC. MUT data. HIGH ims, scu, ipr. A

ingestion. See also arsenic compounds. Fire Hazard: Mod in the form of dust when exposed to heat or flame or by chemical reaction with powerful oxidizers such as bromates, chlorates, iodates, peroxides, Li, NCl₃, KNO₃, KMnO₄, Rb₂C₂, AgNO₃, NOCl, IF_5 , CrO_3 , CIF_3 , ClO, BrF_3 , BrF_5 , BrN_3 , RbC = CH,

poison. Used as a food additive in food for human

 $C_3C = CH.$

Explosion Hazard: Slight in the form of dust when exposed to flame.

Disaster Hazard: Dangerous; when heated or on contact with acid or acid fumes, emits highly tox fumes; can react vigorously on contact with oxidizing materials. Incomp: Bromine azide, dirubidium acetylide, halogens. palladium, zinc, platinum, NCl₃, AgNO₃, CrO₃, Na₂O> hexafluoro isopropyl ideneamino lithium.

For further information see Vol. 1, No. 3 of DPIM Report

M-ARSENIC ACID

CAS RN: 10102531 mf: AsHO₃; mw: 123.93 NIOSH #: CG 0760000

SYN: MI TOXIC Aquatic 2,-,74 TLY: A tional CL 2 Inven THR: S Disaster fume

CAS R mf: Asi SYNS: CIDE AS (FRENC TOXIC eri-rat Li TLY: A Revie

O-ARS

ug/t tory, THR: Disaste fume

ARSE

500 I

Expo

CAS R SYN: c TOXIC DOT: Occa

> Air: TSC THR: For fu

ARSE CAS I ₩£ ∧ı

CHO

SYNS:

CYANSAN

SAN-CYAN

TOXICITY DATA:

3 CODEN: AROPAW 94,927,76

orl-hmn TDLo:5400 mg/kg/ 24W:EYE

ims-rat LD50:310 mg/kg orl-mus LDLo:4 mg/kg

BJPCAL 1,186,46 APFRAD 19,740,61

Reported in EPA TSCA Inventory, 1980.

THR: Toxic to eye in hmn via orl. HIGH ims, orl. See also cyanates.

Disaster Hazard: When heated to decomp it emits very tox fumes of CN- and Na₂O.

CYANIDE

CAS RN: 57125 NIOSH #: GS 7175000

mf: CN-; mw: 26.02

SYN: CYANURE (FRENCH)

TOXICITY DATA: CODEN:

ipr-mus LD50:3 mg/kg NATUAS 228,1315,70

TLV: Air: 5 mg/m3 DTLVS* 4,109,80. Toxicology Review: CLCHAU 19,361,73. "NIOSH Manual of Analytical Methods" VOL 1 116, VOL 3 S250. Reported in EPA TSCA Inventory, 1980.

THR: Cyanide directly stimulates the chemoreceptors of the carotid and aortic bodies with a resultant hyperpnea. Cardiac irregularities are often noted, but the heart invariably outlasts the respirations. Death is due to respiratory arrest of central origin. It can occur within seconds or minutes of the inhalation of high concentrations of hydrogen cyanide gas. Because of slower absorption, death may be more delayed after the ingestion of cyanide salts, but the critical events still occur within the first hour.

Two other sources of cyanide have been responsible for human poisoning. One of these is amygdalin, a cyanogenic glycoside found in apricot, peach, and similar fruit pits and in sweet almonds. Amygdalin is a chemical combination of glucose, benzaldehyde, and cyanide from which the latter can be released by the action of β -glucosidase or emulsin. Although these enzymes are not found in mammalian tissues, the human intestinal microflora appears to possess these or similar enzymes capable of effecting cyanide release resulting in human poisoning. For this reason amygdalin may be as much as 40 times more toxic by the oral route as compared with intravenous injection. Amygdalin is the major ingredient of Laetrile, and this alleged anticancer drug has also been responsible for human cyanide poisoning. An ethical drug that may also cause cyanide poisoning in overdose is the potent vascular smoothmuscle relaxant sodium nitroprusside. Although nitroprusside is related chemically to ferricyanide, unlike the latter it penetrates into erythrocytes and reacts with hemoglobin to release its cyanide (Smith and Kruszyna,

Cyanide is commonly found in certain rat and pest poisons, silver and metal polishes, photographic solu-

1974). Fortunately, the therapeutic margin for nitro-

prusside appears to be quite large.

tions, and fumigating products. Compounds such potassium cyanide can also be readily purchased from chemical stores. Cyanide is readily absorbed from routes, including the skin, mu mem, and by inhal though alkali salts of cyanide are toxic only when gested. Death may occur with ingestion of even small amounts of sodium or potassium cyanide and can occur within minutes or hours depending on route of expo sure. Inhalation of toxic fumes represents a potential rapidly fatal type of exposure. Sodium nitroprusade (Smith and Kruszyna, 1974) and apricot seeds (Sayre and Kaymakcalan, 1964) have also caused cyanide posoning. A blood cyanide level of greater than 0.2 my ml is considered toxic. Lethal cases have usually had levels above 1 µg/ml. Clinically, cyanide poisoning reported to produce a bitter, almond odor on the breach of the patient; however, only a small proportion of the population is genetically able to discern this charge teristic odor. Typically, cyanide has a bitter, burning taste, and following poisoning, symptoms of salivation nausea without vomiting, anxiety, confusion, vertige giddiness, lower jaw stiffness, convulsions, opisthose nos, paralysis, coma, cardiac arrhythmias, and transical respiratory stimulation followed by respiratory failure may occur. Bradycardia is a common finding, but a most cases heartbeat usually outlasts respiration (Wesler et al., 1947). A prolonged expiratory phase is considered to be characteristic of cyanide poisoning.* The volatile cyanides resemble hydrocyanic acid physiolop cally, inhibiting tissue oxidation and causing death through asphyxia. Cyanogen is probably as toxic a hydrocyanic acid; the nitriles are generally considered somewhat less toxic, probably because of their love volatility. The non-volatile cyanide salts appear to relatively non-toxic systemically, so long as they not ingested and care is taken to prevent the formation of hydrocyanic acid. Workers, such as electropiates and picklers, who are daily exposed to cyanide solutions may develop a "cyanide" rash, characterized by itchiss and by macular, papular, and vesicular eruptions. Frequently there is secondary infection. Exposure to small amounts of cyanide compounds over long periods time is reported to cause loss of appetite, headscha weakness, nausea, dizziness, and symptoms of irr the upper respiratory tract and eyes. See also specific compounds.

Fire Hazard: Mod, by chemical reaction with heat, ture, acid. Many cyanides evolve hydrocyanic rather easily. This is a flam gas and is highly touch Carbon dioxide from the air is sufficiently acidic liberate hydrocyanic acid from cyanide solutions also hydrocyanic acid.

Explosion Hazard: See hydrocyanic acid. Exploses melted with nitrite or chlorate @ about 450°. Violent reaction with F2, Mg, nitrates, HNO3, nitrites, Disaster Hazard: Dangerous; on contact with acid, fumes, water sam vapors

CYANIDOL

E C15H11O6 MN: 3,3',4',5 TOXICITY I LD50:23 LD50:24 LD50:4 LD50:8

THR: HIGH Designer Hazo smoke and

CYANINE I CAS RN: 54 E CaH26N

TYN: 6-DIMET LYL)VINYL)-1-

TOXICITY ! atrat LD50:16 LD50:7

THR: HIGH Disaster Haze sox fumes

SCYANOA

CAS RN: 10 C,H,N,C

White powde

TANACETAMID A CONCETAMI A PROBREMONO A CI MAKAMIDE N

LD50: 1 LD50:7 Reported in THE MOD Mester Haz

TOXICITY:

TANOACE C45 RN: 37 **€** CH,NO

as of 1

et ap: 60

^{*} Casarett and Doull's, "Toxicology, the basic Science of Poiso ed. Doull, Klassen and Amdur (eds). Macmillan Pub. Co. Isc. York, N.Y.

Carcinogenic Determination: Human Positive IARC** 23,205,80; Animal Positive IARC** 23,205,80; Indefinite IARC** 2,100,73.

TLV: Air: 0.05 mg(Cr)/m3 DTLVS* 4,245,80. Toxicology Review: 27ZTAP 3,86,69. OSHA Standard: Air: CL 100 ug(Cr03)/m3 (SCP-O) FEREAC 39,23540,74. Occupational Exposure to Chromium (VI) recm std: Air: CL 1 ug(Cr(VI))/m3 NTIS**. Occupational Exposure to Inorganic Lead recm std: Air: TWA 0.10 mg(Pb)/m3 NTIS**. Reported in EPA TSCA Inventory, 1980. EPA TSCA 8(a) Preliminary Assessment Information Proposed Rule FERREAC 45,13646,80.

THR: MUT data. An exper NEO, ETA, CARC. A hmn CARC. See also lead, chromium compounds.

Disaster Hazard: When heated to decomp it emits tox fumes of Pb.

Incomp: Iron (#+) hexacyanoferrate (4-)

For further information see Vol. 1, No. 7 of DPIM Report.

LEAD CHROMATE, BASIC

CAS RN: 18454121 NIOSH #: OF 9800000

mf: CrO₄Pb·OPb; mw: 546.38

Red amor or crystal; mp: 920°.

SYNS:

ARANCIO CROMO (ITALIAN)

AUSTRIAN CINNABAR

BASIC LEAD CHROMATE

CHROMIUM LEAD OXIDE

CHROMIUM LEAD OXIDE

TOXICITY DATA: 3

mmo-sat 80 ug/plate
scu-rat TDL0:135 mg/kg:CARC
scu-rat TD:135 mg/kg:ETA
scu-rat TD:135 mg/kg:NEO

CODEN:
MUREAV 54,139,78
ANYAA9 271,431,76
PBPHAW 14,47,78
TUMOAB 57,213,71

Carcinogenic Determination: Animal Suspected IARC** 23,205,80; Human Positive IARC** 23,205,80. OSHA Standard: Air: TWA 200 ug(Pb)/m3 (SCP-O) FEREAC 39,23540,74. Occupational Exposure to Chromium (VI) recm std: Air: CL 1 ug(Cr(VI))/m3 NTIS**. Occupational Exposure to Inorganic Lead recm std: Air: TWA 0.10 mg(Pb)/m3 NTIS**. Reported in EPA TSCA Inventory, 1980.

THR: MUT data. An exper CARC, ETA, NEO. A + human CARC. See also lead, lead compounds. See also chromium compounds.

Disaster Hazard: When heated to decomp it emits fumes of Ph

LEAD COMPOUNDS

THR: Poisons. Lead poisoning is one of the commonest of occupational diseases. The presence of lead-bearing materials or lead compounds in an industrial plant does not necessarily result in exposure on the part of the workman. The lead must be in such form, and so distributed, as to gain entrance into the body or tissues of the workman in measurable quantity, otherwise no exposure can be said to exist. Some are CAR of the

lungs and kidneys. Exper NEO, ETA. Mode of entry into body:

1. By inhal of the dusts, fumes, mists or vapors. (Common air contaminants.)

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2. By ingestion of lead compounds trapped in the upper respiratory tract or introduced into the mouth on food, tobacco, fingers or other objects.

3. Through the skin; this route is of special importance in the case of organic compounds of lead, as lead tetraethyl. In the case of the inorganic forms of lead, this route is of no practical importance.

When lead is ingested, much of it passes through the body unabsorbed, and is eliminated in the feces. The greater portion of the lead that is absorbed is caught by the liver and excreted, in part, in the bile. For this reason, larger amounts of lead are necessary to cause poisoning if absorption is by this route, and a longer period of exposure is usually necessary to produce symptoms. On the other hand, upon inhal, absorption takes place easily from the respiratory tract and symptoms tend to develop more quickly. From the point of view of industrial poisoning, inhal of lead is much more important than is ingestion.

Lead is a cumulative poison. Increasing amounts build up in the body and eventually a point is reached where symptoms and disability occur. Lead produces a brittleness of the red blood cells so that they hemolyze with but slight trauma; the hemoglobin is not affected. Due to their increased fragility, the red cells are destroyed more rapidly in the body than normally, producing an anemia which is rarely severe. The loss of circulating red cells stimulates the production of new young cells which, on entering the blood stream, are acted upon by the circulating lead, with resultant coagulation of their basophilic material. These cells after suitable staining, are recognized as "stippled cells." 🗛 regards the effect of lead on the white blood cells, there is no uniformity of opinion. In addition to its color on the red cells of the blood, lead produces a damaged effect on the organs or tissues with which it comes contact. No specific or characteristic lesion is produced. Autopsies of deaths attributed to lead poisoning experimental work on animals, have shown perhaps logical lesions of the kidneys, liver, male gonads, vous system, blood vessels and other tissues. of these changes, however, have been found comtently.

In cases of lead poisoning, the amount of lead found in the blood is frequently in excess of 0.07 mg 100 cc of whole blood. The urinary lead excretion erally exceeds 0.1 mg per liter of urine.

The toxicity of the various lead compounds appeared to depend upon several factors: (1) the sol of the compound in the body fluids; (2) the fineness of the particles of the compound; sol is greater, of course, in proposition to the fineness of the particles; (3) conditions which the compound is being used; where a lead sphere will be much less where the powder sphere will be much less where the powder damp. Of the various lead compounds, the carbon the monoxide and sulfate are considered to be

toxic than metallic lead or other lead compounds. Lead arsenate is very toxic, due to the presence of the arsenic radical.

signs and Symptoms: Industrial lead poisoning commonly occurs following prolonged exposure to lead or its compounds. The common clinical types of lead poisoning may be classified according to their clinical picture as (a) alimentary; (b) neuromotor; and (c) encephalic. Some cases may show a combination of clinical types. The alimentary type occurs most frequently, and is characterized by abdominal discomfort or pain. Severe cases may present actual colic. Other complaints are constipation and/or diarrhea, loss of appetite, metallic taste, nausea and vomiting, lassitude, insomnia, weakness, joint and muscle pains, irritability, headache and dizziness. Pallor, lead line on the gums, pyorrhea, loss of weight, abdominal tenderness, basophilic stippling, anemia, slight albuminuria, increased urinary excretion, and an increase in the lead content of the whole blood, are signs which may accompany the above symp-

In the neuromuscular type, the chief complaint is weakness, frequently of the extensor muscles of the wrist and hand, unilateral or bilateral. Other muscle groups which are subject to constant use may be affected. Gastroenteric symptoms are usually present, but are not as severe as in the alimentary type of poisoning. Joint and muscle pains are likely to be more severe. Headache, dizziness and insomnia are frequently prominent. True paralysis is uncommon, and usually is the result of prolonged exposure.

Lead encephalopathy is the most severe but the rarest manifestation of lead poisoning. In the industrial worker it follows rapid and heavy lead absorption. Organic lead compounds, such as tetraethyl lead, are absorbed rapidly through the skin as well as through the lungs, and are selectively absorbed by the CNS. The clinical picture in these cases is usually an encephalopathy. With inorganic lead compounds, comparable conc in the CNS are reached only when the workplace is heavily contaminated with vapor, fume and dust. Encephalopathy begins abruptly, and is characterized by signs of cerebral and meningeal involvement. There is usually stupor, progressing to coma, with or without convulsion, and often terminating in death. Excitation, confusion and mania are less common. In milder cases of short duration, there may be symptoms of headache, dizziness, somnolence and insomnia. The cerebrospinal pressure may be increased. See also specific compound.

Diagnosis: A diagnosis of lead poisoning should not be made on the basis of any single clinical or laboratory finding. There must be a history of significant exposure, signs, and symptoms (as described above) compatible with the diagnosis, and confirmatory laboratory tests. Increase of stippled red blood cells, mild anemia, and elevated lead in blood and urine, i.e., more than 0.07 mg/100 ml blood and similar values per liter of urine. An increase of coproporphyrins and certain amino acids in urine may be present. Diagnostic mobilization

of lead with calcium EDTA may be useful in questionable cases.

Treatment of Lead Poisoning: It has been found that the chelating agent, calcium ethylenediaminetetracetate, and related compounds are highly efficacious in removing absorbed lead from the tissues of the body. (The therapeutic agents of this group are also known as versene, versenate, edathamil and Ca EDTA. Ca EDTA is effective only when administered intravenously. Various dosage schedules have been proposed. An effective regime is 3-6 g of Na Ca EDTA in 300 cc-500 cc of 5% glucose by intravenous drip over a period of 3-8 hrs. Treatment may be given daily for 5-10 days with an interval of one week between courses. Another plan is to give treatment at intervals of 3-5 days until deleading has been accomplished.

Disaster Hazard: See lead.

LEAD(II) CYANIDE

CAS RN: 592052 NIOSH #: OG 0175000 mf: C₂N₂Pb; mw: 259.23

White powder.

SYNS:

C.I. 77610 C.I. PIGMENT YELLOW 48 CYANURE DE PLOMB (FRENCH) LEAD CYANIDE (DOT)

TOXICITY DATA: ipr-rat LDLo: 100 mg/kg

CODEN: NCNSA6 5,27,53

OSHA Standard: Air: TWA 200 ug(Pb)/m3 (SCP-O) FEREAC 39,23540,74. DOT: Poison B, Label: Poison FEREAC 41,57018,76. Occupational Exposure to Inorganic Lead recm std: Air: TWA 0.10 mg(Pb)/m3 NTIS**.

3

THR: HIGH ipr. A poison. See also lead compounds and cyanides. Violent reaction with Mg. A fire hazard as a powerful oxidizer.

Disaster Hazard: When heated to decomp it emits very tox fumes of Pb, CN⁻ and NO_x.

Incomp: Magnesium.

LEAD DICHLORITE

mf: Cl₂O₄Pb; mw: 477.00

THR: See also lead compounds. Incomp: Antimony sulfide, or sulfur. Explosion Hazard: Self-explodes.

Disaster Hazard: When heated to decomp it emits very tox fumes of Pb and Cl⁻.

LEAD DIMETHYLDITHOCARBAMATE

CAS RN: 19010663 NIOSH #: OF 8850000

mf: $C_6H_{12}N_2S_4 \cdot Pb$; mw: 447.63

Solid, mp: 258°, d: 2.5

SYNS:

MIATO)LEAD

BIS(DIMETHYLCARBAMODITHI-QATO-S,S')LEAD BIS(DIMETHYLDITHIOCARBA-

LEDATE NCI-C02891

REFERENCES

REFERENCES

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- 4. Engineering Geology of Jefferson County, Atlas 14, Geological Survey of Alabama, 1979.
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- 7. ADEM Public Water Supply Data and Well Logs for Jefferson County, Alabama.
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- 11. The Merck Index, Ninth Edition, Merck & Company, Inc., 1976.
- 12. Telephone interviews with Mr. Winston McGill, Environmental Coordinator.
- 13. Jim Walters Resources Flat Top, Nebo Mine, Preliminary Assessment ALD980559470, September 12, 1984.

ENVIRONMENTAL PROTECTION SYSTEMS, INC. Alabama RCRA 3012 Site Ranking Scheme EPS Form 3012-V

Site Name_	JWR Flot Top	Neko
Site Number_		

Site Inspection Ranking Scheme

6. Facility Management Practices at Site?

not up-to-date.

A. Site actively supervised and managed

B. Site inadequately managed records

Currently with monitoring reports and other permit and report requirements.

1 point

3 points

(5)	elect	one answer for each of the following seven	questions)	
1.	Are	Hazardous Substances Present?		
	Α.		10 coints	
		Suspected at site!	5 points	
		It is unknown!	2 points	
		No hazardous substances	U points	
		RCRA facility only!	U points	
	•	· · · · · · · · · · · · · · · · · · ·		
2.	ſs	There a Pollution Dispersal Pathway?		
	A.	Direct to surface and/or groundwater.	5 points	
		Indirect to surface and/or groundwater.	4 points	
		Suspected to surface and/or groundwater.	3 points	3
		Not known for sure.	2 points	
		No pathway.	0 points	
	٠.	no pathway.	o pornes	
2	Chai	racteristics of Human Population?		•
J.	A.	High density.	5 points	
		Medium density.	4 points	
		Low density.	3 points	
	U.	No population.	2 points	
Л	Char	eschapishiga of Nahumal Paulusanahl		
٠.		racteristics of Natural Environment?		
	۸.	Critical habitat including endangered species, etc.	5 points	
	R	Sensitive habitat.	J points	
		Common less sensitive habitat.	2 points	\overline{z}
	٠.	Common 1832 Sensitive natitat.	2 points	
5.	¥o.,	is Human Danulahian Assumble D. Sinch		
J.		is Human Population Affected By Site?		
	А.	Public utility of drinking water		
	_	from site.	5 points	
	8.	Direct public access to site.	4 points	
	С.	Public access to affected	• • •	
	0	surface water.	3 points	
	0.	Only potential for human	0	
	٠,	population contact.	2 points	
	Ε. '	Low or no potential for contact.	1 point	1 _

	•	•		
	C. Site not currently regulated.	y managed or		•
	n Abandan aika		4 points	:
	D. Abandon site.		5 points	
7.	Potential Responsible Operations?			
	A. Controlling party accepts responsi	ihility for eita	l maint	.1
	but does not acc	ing party identified cept responsibility	<u>l point</u>	<u>`</u>
	for site. C. No responsible par		4 points 5 points	
		:		

Ranking Score =

$$\frac{5}{\#1} \times \frac{3}{\#2} + \frac{2}{\#4} + \frac{2}{\#3} \times \frac{1}{\#5} + \frac{1}{\#6} + \frac{1}{\#7}$$

TABLE 1. Ranking Assessment

NUMERICAL RANGE	PRIORITY ASSESSMENT
0-50 50-150	NONE
150-300	LOW Medium
300 - 450	HICH

Ranking Score: 45

Priority Assessment: NONE

•	DΛ
	ГМ

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

WEPA	PART 1 - SITI	SITE INSPECT E LOCATION AND			ATION	AL I	0980559470
II. SITE NAME AND LOCATIO							
01 SITE NAME (Legal common, or descri Jim Walters Resour	aces/ Neba	Top	02 STREET, ROUT		ECIFIC LOCATION IDEN	ITIFIER	
Graysville			04 STATE 05 ZIP	CODE -444	Jeffen s	san	07COUNTY 08 CONG CODE DIST 073 06
09 COORDINATES	870 23.	10 TYPE OF OWNERSHI A. PRIVATE F. OTHER			C. STATE D. C.		☐ E. MUNICIPAL
III. INSPECTION INFORMATI							
01 DATE OF INSPECTION 11,7,84 MONTH DAY YEAR	OZ SITE STATUS ACTIVE INACTIVE	i ———	90'5	Present ENDING YEAR	<u>uni</u>	KNOWN	
04 AGENCY PERFORMING INSPECTI	ON (Check all that apply)						
□ A. EPA □ B. EPA CONTI	NTRACTOR EPS. "	Name of firm) Name of firm)	☐ C. MUNICIPA	L D.MI	UNICIPAL CONTRAC	:TOR	(Name of firm)
05 CHIEF INSPECTOR		06 TITLE			07 ORGANIZATIO	N	08 TELEPHONE NO.
Paul J. Bie	nstine, P.E.	Hydro g	eologist		EPS,-		12 TELEPHONE NO.
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17 ACCESS GAINED BY (Check one) 18 TO PERMISSION WARRAN I	WE OF INSPECTION 8:30 a.m.	19 WEATHER CONDI	TIONS Clea	n, col ,ht wi	d (35-40°	1F)	
IV. INFORMATION AVAILABL	.E FROM						
Steve Man	uer Scu	02 OF (Agency/Organiza	Mon)			1	03 TELEPHONE NO. 12057 271-7728
04 PERSON RESPONSIBLE FOR SITE	INSPECTION FORM	05 AGENCY	06 ORGANIZATIO	N N	601) 922 - 8	- 1	3 ,12,85

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I. IDENT	IFICATION	
OI STATE	02 SITE NUMBER 1980 539	470

VE	74			EINFORMATION	l	AL 1098	0539 470
II. WASTE S	TATES, QUANTITIES, AN	D CHARACTER	RISTICS				
01 PHYSICAL S □ A SOLID ₩ 8. POWDE □ C. SLUDGI		must be	of weste quentities e independenti UN KASWA	03 WASTE CHARACTI A. TOXIC B. CORRO C. RADIOA D. PERSIS	CTIVE [] G. FLAM	BLE I HIGHLY ITIOUS I J. EXPLO MABLE I K. REAC' ABLE II LINCON	SIVE TIVE IPATIBLE
🗆 D. OTHER	(Specify)	NO. OF DRUMS				€M. NOT A	PPLICABLE
III. WASTE T	YPE	<u> </u>				,	
CATEGORY	SUBSTANCE N	AME	01 GROSS AMOUNT	02 UNIT OF MEASURE	·		
SLU	SLUDGE						
OLW	OILY WASTE					•	1
SOL	SOLVENTS						
PSD	PESTICIDES						· .
occ	OTHER ORGANIC CH	IEMICALS					
(loc)	INORGANIC CHEMIC	ALS	Low as	nounts /	naturally	occuring	,
ACD	ACIDS			/	/	<i></i>	, .
BAS	BASES						
(MES)	HEAVY METALS		Trace a	nounds in	coal mining	waste .	thes 4
IV. HAZARD	OUS SUBSTANCES (500 A4	pendix for most frequen	ntly cited CAS Mumbers)			over budes	
01 CATEGORY	02 SUBSTANCE N	AME	03 CAS NUMBER	04 STORAGE/DISA	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
IOC	Cyonide	Total		Waste pil	es & runoff	5.7-16.2	ppm.
MES_	Arsenic	Total		control is	o sourcets	.028056	ppm
MES	Lead	Total		associate	W	0.003 - 0.016	Sem
				coal mini	ing activities	5	//
					-T		
						٠.	
V. FEEDSTO	CKS (See Appendix for CAS Numbe	ora)		L		<u> </u>	
CATEGORY	01 FEEDSTOCE		02 CAS NUMBER	CATEGORY	01 FEEDSTO	OCK NAME	02 CAS NUMBER
FDS				FDS			
FDS			1	FDS			
FDS			 	FDS		<u> </u>	
FDS			 	FDS			
····	OF INFORMATION (Case)	nacific reterances	state flee segmin enclusiv				<u> </u>
	Leb data				11/7/84		
-							

I. IDENTIFICATION

SEPA PART 3 - DESCRIP	SITE INSPECTION REPORT TION OF HAZARDOUS CONDITIONS AND INCIDENTS	ALI	988559 470
II. HAZARDOUS CONDITIONS AND INCIDENTS	NONE		
01 L) A. GROUNDWATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 (] OBSERVED (DATE:)	□ POTENTIAL	(7) ALLEGED
01 D B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:		D POTENTIAL	□ ALLEGED
01 C. CONTAMINATION OF AIR 03 POPULATION POTENTIALLY AFFECTED:	02 [] OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	□ POTENTIAL	☐ ALLEGED
01 □ D. FIRE/EXPLOSIVE CONDITIONS		□ POTENTIAL	☐ ALLEGED
03 POPULATION POTENTIALLY AFFECTED:	04 NARRATIVE DESCRIPTION		·
01		D POTENTIAL	C) ALLEGED
01 - F. CONTAMINATION OF SOIL 03 AREA POTENTIALLY AFFECTED: (Acres)	02 (1 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	D POTENTIAL	C) ALLEGED
01 G. DRINKING WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED:	02 D OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	ALLEGED
01 TH. WORKER EXPOSURE/INJURY 03 WORKERS POTENTIALLY AFFECTED:		POTENTIAL	□ ALLEGED
01 I. POPULATION EXPOSURE/INJURY 03 POPULATION POTENTIALLY AFFECTED:	02 🗆 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION) POTENTIAL	□ ALLEGED

9	FF	PΔ
\	— I	

POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT

I. IDENTIFICATION

01 STATE 02 SITE NUMBER

AL D980 539 470

PART 3 - DESCRIPTION OF HA	ZARDOUS CONDITIONS AND INCIDENTS	IAL 10	980 539 470
H. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)	NONE		
01 D J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:)	POTENTIAL	() ALLEGED
01 D K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
01 □ L CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	POTENTIAL	() ALLEGED
01 M. UNSTABLE CONTAINMENT OF WASTES (Spillu/Runoff/Standing liquids Leaking drums) 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	POTENTIAL	☐ ALLEGED
01 N. DAMAGE TO OFFSITE PROPERTY NARRATIVE DESCRIPTION	02	POTENTIAL	□ ALLEGED
01 O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs O4 NARRATIVE DESCRIPTION	02	POTENTIAL	☐ ALLEGED
01 ☐ P. ILLEGAL/UNAUTHORIZED DUMPING Q4 NARRATIVE DESCRIPTION	02 OBSERVED (DATE:)	[] POTENTIAL	D ALLEGED
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEC	3FD HAZARDS		·
III. TOTAL POPULATION POTENTIALLY AFFECTED:			
IV. COMMENTS			
V. SOURCES OF INFORMATION (Cité specific references, e. g., State files, s	ample analysis, reports;		

≎EPA	POTENTIAL SI PART 4 - PERMIT /	I. IDENTIFICATION 1. STATE OF SITE NUMBER AL 1980 559 470				
II. PERMIT INFORMATION		-				· · · · · · · · · · · · · · · · · · ·
01 TYPE OF PERMIT ISSUED	02 PERMIT NUMBER	03 DATE IS	SUED	04 EXPIRATION DATE	05 COMMENTS	
(Check-all that apply)	ν					
₩A. NPDES	unknaun					
D B UIC						
C. AIR						
☐ D. RCRA						
E. RCRA INTERIM STATUS						· · · · · · · · · · · · · · · · · · ·
☐ F. SPCC PLAN						
G. STATE (Specify)						
☐ H. LOCAL (Specify)						
☐ I. OTHER (Specify)						
☐ J. NONE						
III. SITE DESCRIPTION						
B. PILES C. DRUMS, ABOVE GROUND D. TANK, ABOVE GROUND E. TANK, BELOW GROUND F. LANDFILL G. LANDFARM H. OPEN DUMP I. OTHER (Soccety) OT COMMENTS Surface ing acidic mine a Reg. by NPD	oundments overburden o ES permi	ari	□ 8. □ C. □ D. □ E. □ F. □ G. □ F. □ F	INCENERATION UNDERGROUND INJE CHEMICAL/PHYSICA BHOLOGICAL WASTE OIL PROCESS SOLVENT RECOVERY OTHER RECYCLING/I OTHER PHAM (Sp.) LEA CO	SING RECOVERY JUST TO J	OF AREA OF SITE Whawn (Acres) Town ment of affluent.
V. CONTAINMENT						
D1 CONTAINMENT OF WASTES (Checa one) A. ADEQUATE, SECURE	B. MODERATE	C. IN	ADEQU	ATE, POOR	D. INSECU	RE, UNSOUND, DANGEROUS
V. ACCESSIBILITY O1 WASTE EASILY ACCESSIBLE: YES (1922 COMMENTS)						

VI. SOURCES OF INFORMATION (Cité specific references, e.g. state files, sample analysis, raports)

POTENTIAL HAZARDOUS WASTE SITE					I. IDENTIFICATION	
SEPA			IDOUS WASTE SI	16	01 STATE 02 SITE NUMBER AL 1) 980559478	
VLIA	PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA					
II. DRINKING WATER SUPPLY	Graysville	2.1.1	. + I	on Birmi	4/ 3	
	(110)5 64(18	purt voso	water II	con Dicons	7	
01 TYPE OF DRINKING SUPPLY (Check as applicable)		02 STATUS			O3 DISTANCE TO SITE	
SURFACE	WELL	ENDANGERE	D AFFECTED	MONITORED	>10	
COMMUNITY A. 27	B. □ D. \$2	A. D	B. □ E. □	C. ₩ F. □	A(mi) B(mi)	
	0. 2	D. []	E. L.)	r. U	B(nii)	
III. GROUNDWATER 01 GROUNDWATER USE IN VICINITY (Check						
A. ONLY SOURCE FOR DRINKING	D B. DRINKING		-	, INDUSTRIAL, IRRIGATI	ION D. NOT USED, UNUSEABLE	
C -	(Other sources available	USTRIAL, IRRIGATIO	(Limited other sou	rces evallable)	on a serior occo, oroccasic	
02 POPULATION SERVED BY GROUND WAT	TER		03 DISTANCE TO NEARE	ST DRINKING WATER W	/ELL	
04 DEPTH TO GROUNDWATER	05 DIRECTION OF GROU		06 DEPTH TO AQUIFER OF CONCERN	07 POTENTIAL YIELD		
<u>80-100 (tt)</u>	+0:	5	80-100 (ft)	1 1 - 116	(gpd) BYES DNO	
09 DESCRIPTION OF WELLS (Including useage.	depth, and location religitive to po	opulation and buildings)	10 0			
09 DESCRIPTION OF WELLS including unage. Miller Steam Almert Linking	plant has	are cre	ll about	3 miles	sound agrite.	
Nement dinking	well 13.	miles oa	AD @ COU	ntry Club		
7						
10 RECHARGE AREA Pott	suille En e	agnites	11 DISCHARGE AREA	For Po	Hsuille @	
	suille Fn e ge mea is		DVYES COMMEN	is moderal	Hser'lle (2) gly shellow	
exte	nsive (10-12	counties)		depti	n <u>g</u>	
IV. SURFACE WATER						
01 SURFACE WATER USE (Chock one)		, ECONOMICALLY RESOURCES	EC. COMMERCIA	Clocust F	D. NOT CURRENTLY USED	
STATISTICS OF THE STATE OF THE						
02 AFFECTED/POTENTIALLY AFFECTED 80	DIES OF WATER					
NAME:	_	_		AFFECTED	DISTANCE TO SITE	
Locust Fork o	f the Wa	Mias Ri	Wes.	Possib	1 61	
	, , , , ,		001		(mi)	
					(mi)	
V. DEMOGRAPHIC AND PROPERTY	INFORMATION					
01 TOTAL POPULATION WITHIN	·		02	DISTANCE TO NEARES	ST POPULATION	
ONE (1) MILE OF SITE TW	O (2) MILES OF SITE	THREE (3) MILES OF SITE			
A. 4 100 B			2500		0,2 (mi)	
NO. OF PERSONS NO. OF PERSONS						
03 NUMBER OF BUILDINGS WITHIN TWO (2) MILES OF SITE 04 DISTANCE TO NEAREST OFF-SITE BUILDING						
unk	uun				<u>(mi)</u>	
05 POPULATION WITHIN VICINITY OF SITE (F	rovide nerrative description of ne	ture of population within w	icinity of site, e.g., rural, villege, o	tensely populated urban area		
Sparsely	po pulated	(mal a	rea with	numerou	s cant	
OS POPULATION WITHEN VICINITY OF SITE (Provide nerrative descripting of neture of population within vicinity of size, e.g., rural, village, densely populated when area) Spansely populated rural area with numericans casel strip mines in the area. Nearest community is Grays villa, A)						
Consult. A)						
12 014	ys orthe , to	•				

\$EPA	١.
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I. IDENTIFICATION

\$EPA	SITE INSPECTION REPORT PART 5 - WATER, DEMOGRAPHIC, AND ENVIRONMENTAL DATA O1 STATE 02 SITE NUMBER AL 0980 559 470					
VI. ENVIRONMENTAL INFORMA	ATION					
01 PERMEABILITY OF UNSATURATED Z		C. 10-4 - 10-3 cm/sec ☐ D. GREATER	THAN 10 ⁻³ cm/sec			
02 PERMEABILITY OF BEDROCK (Check	one)					
L) A. IMPERN (Less Man	MEABLE B. RELATIVELY IMPERMEAB (10 ⁻⁶ cm sec)		VERY PERMEABLE (Greater than 10 ⁻² cm sec)			
03 DEPTH TO BEDROCK	04 DEPTH OF CONTAMINATED SOIL ZONE	05 SOIL PH				
<u>0-5</u> (n)	untraum (n)	4.5-5.5				
06 NET PRECIPITATION	07 ONE YEAR 24 HOUR RAINFALL	08 SLOPE DIRECTION OF SITE S	SLOPE , TERRAIN AVERAGE SLOPE			
18.8 (in)	± 3.5 (in)	>5 x +0 5	6-40 *			
09 FLOOD POTENTIAL	10 ☐ SITE IS ON BARRI	IER ISLAND, COASTAL HIGH HAZARD AREA,	RIVERINE FLOODWAY			
SITE IS INYEAR FLO	DODPLAIN					
11 DISTANCE TO WETLANDS (5 acre minim	ium)	12 DISTANCE TO CRITICAL HABITAT (of endangered	d apocies)			
ESTUARINE	OTHER	<u> </u>	(mi)			
A (mi)	8 (mi)	ENDANGERED SPECIES:				
13 LAND USE IN VICINITY						
DISTANCE TO:	RESIDENTIAL AREAS; NATIO	NAI /STATE PARKS AGRIC	CULTURAL LANDS			
COMMERCIAL/INDUSTR						
A(mi)	в О. Z	(mi) c	_(mi) D>(mi)			
alog	else et Warrion et sontotore/shale on over 400 feet	to to award siles	elevations 300 fect surrounds the			
VII. SOURCES OF INFORMATION	N (Cite apocific references, e.g., state files, sample analysis, s					
- Env. Det	n Inventory, State	of Alaboma, 1986				

	F	POTENTIAL HAZARDO	US WASTE SITE		ITIFICATION
≎EPA		SITE INSPECTION ART 6 - SAMPLE AND FIE	N REPORT	OI STAT	02 SITE NUMBER 1)980539 470
II. SAMPLES TAKEN					
SAMPLE TYPE	01 NUMBER OF SAMPLES TAKEN	02 SAMPLES SENT TO			03 ESTIMATED DATE RESULTS AVAILABLE
GROUNDWATER					
SURFACE WATER	Two(2)	Environ menter Tackson 11	I Protestin Si	ystems.	March 85
WASTE		Tuckson 11	ns '		
AIR					
RUNOFF					
SPILL (1996 - 1)					• • •
SOIL.	One (i)	[1	i (71	Įt.
VEGETATION	,				
OTHER (Sedements)	Three (3)	10	-{1	e l	11
HI. FIELD MEASUREMENTS TA	1 2				
01 TYPE	02 COMMENTS				
pH & Temp	Coalu	vastes inpuran	A 19°C . 0	H 3.1 s.v.	
1	Western	vasher inguran	tall 19°E	oH 4.25	
				7	
	1,				
		••••			
IV. PHOTOGRAPHS AND MAP	s				
01 TYPE GROUND AERIA		02 IN CUSTODY OF			
03 MAPS 04 LOCATIO	NOF MAPS	A	(Name of organization or	Individual)	
☐ YES ———	AUEM, M	Intgomeny, A			·
V. OTHER FIELD DATA COLLE					
VI. SOURCES OF INFORMATIO	ON (Cite specific references, e.	g state files, sample enalysis, reports)			
		180 559 470			-

. CURRENT OWNER(S)			NER INFORMATION	1. IDENTIFICATION 01 STATE 02 SITE NUMBER AL 0980559 47		
			PARENT COMPANY (# applicable)			
Jim Watter Resou	nes	02 D+8 NUMBER	08 NAME		09 D+B NUMBER	
Jim Watter Resources The Jim Watter Resources Huy 216 (P.O. Br. Brook wood	x //.	3 04 SIC CODE	10 STREET ADDRESS (P. O. Box, RFD P. etc		11 SIC CODE	
Brook wood	OS STATE	35444	12 CITY	13 STATE	14 ZIP CODE	
1 NAME	-	02 D+B NUMBER	OS NAME	-	09 D+8 NUMBER	
3 STREET ADDRESS (P.O. Box, RFD 4, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box, RFD #, etc		11 SIC CODE	
5 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
1 NAME		02 D+B NUMBER	08 NAME		09 D+B NUMBER	
3 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box. RFD #. etc		11SIC CODE	
5 CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
NAME	_ 	02 D+8 NUMBER	08 NAME		09D+BNUMBER	
3 STREET ADORESS (P.O. Box. RFD #. etc.)		04 SIC CODE	10 STREET ADDRESS (P.O. Box. RFD #. erc	J	11 SIC CODE	
S CITY	06 STATE	07 ZIP CODE	12 CITY	13 STATE	14 ZIP CODE	
IL PREVIOUS OWNER(S) (List most recent first	_ 	<u> </u>	IV. REALTY OWNER(S) (If applicable:	llet most recent first)	· .	
1 NAME		02 D+8 NUMBER	01 NAME		02 D+8 NUMBER	
3 STREET ADDRESS IP O. Box. RFD #. etc.)		04 SIC CODE	O3 STREET ADDRESS (P O. Box, RFD #, etc	RESS (P.O. Box, RFD #, etc.)		
SCITY	OBSTATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE	
NAME	1	02 D+8 NUMBER	01 NAME		02 D+B NUMBER	
3 STREET ADDRESS (P.O. Box, RFD #, etc.)		04 SIC CODE	03 STREET ADDRESS (P. O. Box, RFD #, etc.	,	04 SIC CODE	
СПҮ	06 STATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE	
NAME		02 D+B NUMBER	01 NAME		02 D+B NUMBER	
STREET ADDRESS (P.O. Box, RFD #. etc.)		04 SIC CÓDE	03 STREET ADDRESS (P.O. Bost, RFO 4, etc.)	,	04 SIC CODE	
CITY	OSTATE	07 ZIP CODE	05 CITY	06 STATE	07 ZIP CODE	
. SOURCES OF INFORMATION (Cite spec	ilic relevences	a o tiple like vemele anches	a constal			

11 D+B NUMBER 13 SIC CODE 15 STATE 16 ZIP CODE 11 D+B NUMBER 13 SIC CODE 11 D+B NUMBER
13 SIC CODE 15 STATE 16 ZIP CODE ANIES (Nappacable) 11 D+B NUMBER 13 SIC CODE 5 STATE 16 ZIP CODE
ANIES (# applicable) 11 D+B NUMBER 13 SIC CODE 5 STATE 16 ZIP CODE
ANIES (Nappacable) 11 D+B NUMBER 13 SIC CODE 5 STATE 16 ZIP CODE
11 D+B NUMBER 13 SIC CODE 5 STATE 16 ZIP CODE
11 D+B NUMBER 13 SIC CODE 5 STATE 16 ZIP CODE
11 D+B NUMBER 13 SIC CODE 5 STATE 16 ZIP CODE
5 STATE 18 ZIP CODE
11 D+8 NUMBER
11 D+8 NUMBER
13 SIC COOE
5 STATE 16 ZIP CODE
11 D+8 NUMBER
13 SIC CODE
5 STATE 16 ZIP CODE
<u>_</u>

POT			ENTIAL HAZAI	I. IDENTIFICATION			
\$EPA			SITE INSPEC	CTION REPORT	O1 STATE O) SITE	NUMBER SOSS9470
4 , 2 , 3 , 3	PART	9 - G	ENERATOR/TR/	ANSPORTER INFORMATION			1)-51.,5
II. ON-SITE GENERATOR							
O1 NAME		02 D	D+B NUMBER			_	
03 STREET ADDRESS (P.O. Box RFD +, etc.)			04 SIC CODE	1			
05 CITY	06 STATE	07 Z	(IP CODE				
III. OFF-SITE GENERATOR(S)				- 			
01 NAME 02		02 D	D+B NUMBER	01 NAME		02 0	O+B NUMBER
OS STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	03 STREET ADDRESS (P.O Box, RFD #, etc.)			04 SIC CODE
05 CITY	06 STATE	07 Z	OP CODE	05 CITY	06 STATE	07 2	L CIP CODE
01 NAME		02 0	O+8 NUMBER	01 NAME		02 0	D+B NUMBER
D3 STREET ADORESS (P.O. Box, RFD #, etc.)		Щ	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD *, etc.)			04 SIC CODE
OS CITY	06 STATE	07 Z	IP CODE	05 CITY	06 STATE	07 Z	SIP CODE
IV. TRANSPORTER(S)		Ь		<u> </u>		<u> </u>	
01 NAME		02 D	D+8 NUMBER	01 NAME		02 5	O+B NUMBER
03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE	03 STREET ADDRESS (P. O. Box, RFD #. etc.)			04 SIC CODE
05 CITY	06 STATE	07 Ž	UP CODE	05 CITY	06 STATE	07 Z	P CODE
O1 NAME		02 D)+B NUMBER	01 NAME		02 0	D+8 NUMBÉR
03 STREET ADDRESS (P.O. Box, RFD #, etc.)		\Box	04 SIC CODE	03 STREET ADDRESS (P.O. Box, RFD #, etc.)			04 SIC CODE
05 CITY	06 STATE	07 Z	JP CODE	05 CITY	06 STATE	07 Z	OP CODE
V. SOURCES OF INFORMATION (CRe special	dir references.		tata lifet tample englysis /s	1		Щ	
V. GOOTIGE OF THE CHIEF TOTAL GARAGE	C Perer Services, a	J. g., a.	Me hes, sample energie, on	pons,			
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EPA FORM 2070-13 (7-81)

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POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES

I. IDENT	TEICATION	
OI STATE	02 SITE NUMBER 1980 559	47

\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	PART 10 - P	PAST RESPONSE ACTIVITIES		712 12780331 120
IL PAST RESPONSE ACTIVITIES	NONE		<u>, , , , , , , , , , , , , , , , , , , </u>	
01 🗌 A. WATER SUPPLY CLOSED 04 DESCRIPTION		02 DATE	03 AGENCY	
01 B. TEMPORARY WATER SUPPLY PR 04 DESCRIPTION	ROVIDED	02 DATE	03 AGENCY	
01 C. PERMANENT WATER SUPPLY PR 04 DESCRIPTION	OVIDED	02 DATE	03 AGENCY	
01 () D. SPILLED MATERIAL REMOVED 04 DESCRIPTION	÷ .	02 DATE	03 AGENCY	
01 DE. CONTAMINATED SOIL REMOVED 04 DESCRIPTION		02 DATE		
01 D.F. WASTE REPACKAGED 04 DESCRIPTION	·	02 DATE	03 AGENCY	
01 G. WASTE DISPOSED ELSEWHERE 04 DESCRIPTION		02 DATE		
01 🗆 H. ON SITE BURIAL 04 DESCRIPTION		02 DATE	03 AGENCY	
01 [] I. IN SITU CHEMICAL TREATMENT 04 DESCRIPTION		02 DATE	03 AGENCY	·
01 J. IN SITU BIOLOGICAL TREATMENT 04 DESCRIPTION		02 DATE	03 AGENCY	
01 K. IN SITU PHYSICAL TREATMENT 04 DESCRIPTION		02 DATE	03 AGENCY	
01 (L. ENCAPSULATION 04 DESCRIPTION		02 DATE	03 AGENCY	
01 (I) M. EMERGENCY WASTE TREATMENT 04 DESCRIPTION	г	02 DATE	03 AGENCY	
01 CI N. CUTOFF WALLS 04 DESCRIPTION		02 DATE	03 AGENCY	
01 D O. EMERGENCY DIKING/SURFACE W 04 DESCRIPTION	ATER DIVERSION	,		
01 P. CUTOFF TRENCHES/SUMP 04 DESCRIPTION		02 DATE	03 AGENCY	
01 Q. SUBSURFACE CUTOFF WALL 04 DESCRIPTION		02 DATE	03 AGENCY	

≎EPA	POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 10 - PAST RESPONSE ACTIVITIES		L IDENTIFICATION 01 STATE 02 SITE NUMBER AL 1980539 470
II PAST RESPONSE ACTIVITIES (Commund)	NONE		
01 R. BARRIER WALLS CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 S. CAPPING/COVERING 04 DESCRIPTION	02 DATE	03 AGENCY	·
01 🗆 T. BULK TANKAGE REPAIRED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 U. GROUT CURTAIN CONSTRUCTED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 🗆 V. BOTTOM SEALED 04 DESCRIPTION	02 DATE	03 AGENCY	
01 DW. GAS CONTROL 04 DESCRIPTION	02 DATE		
01 D X. FIRE CONTROL 04 DESCRIPTION	02 DATE	03 AGENCY	<u> </u>
01 🗆 Y. LEACHATE TREATMENT 04 DESCRIPTION	02 DATE	03 AGENCY	
01 🗆 Z. AREA EVACUATED 04 DESCRIPTION	O2 DATE	03 AGENCY	
01 1. ACCESS TO SITE RESTRICTED 04 DESCRIPTION	02 DATE		,
01 2. POPULATION RELOCATED 04 DESCRIPTION	02 DATE	03 AGENCY.	
01 3. OTHER REMEDIAL ACTIVITIES 04 DESCRIPTION	02 DATE	03 AGENCY.	
III. SOURCES OF INFORMATION (Cite specific rate)	rences. e.a. state (fies. semale analysis, reports)		



POTENTIAL HAZARDOUS WASTE SITE SITE INSPECTION REPORT PART 11 - ENFORCEMENT INFORMATION

I.	IDENT	IFICATION	
01	STATE	O) SITE NUMBER	1470

II. ENFORCEMENT I	NFORMATION
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01 PAST REGULATORY/ENFORCEMENT ACTION [] YES INO

02 DESCRIPTION OF FEDERAL, STATE, LOCAL REGULATORY/ENFORCEMENT ACTION

III. SOURCES OF INFORMATION (Cité apocific references, e.g., state files, sample analysis, reports)

October 30, 1984

Mr. Winston McGill Jim Walter Penources Mining Division P. O. Box 113 Brookwood, Alabama 35447

Dear Mr. McGill:

The purpose of this letter is to follow-up our phone conversation concerning the upcoming or-site screening study of the Flat Top Neho Mine facility (ALD980559470) on November 7, 1934 at 8:30 a.m.

This on-site screening study is part of the site inventory program now being conducted in the State of Alabama according to requirements of Section 3012 of the Resource Conservation and Recovery Act.

This study will be conducted by personnel from the firm Environmental Protection Systems, Inc. This firm has been retained by the Alabama Department of Environmental Management to perform the sice inventory program.

Br. Paul Bierstine of Environental Protection Systems, Inc. will be in charge of this on-site screening study.

It is anticipated that several soil/sodiment and water samples will be taken,

If you desire, EPS, Inc. will provide split samples. However, you will be required to provide your own contaniners and analysis for your part of the split samples.

As part of this study, EPS, Inc. will photograph sampling areas for documentation pursoses.

Once the site screening study report and cample analysis have been completed. I will send you a copy of our findings.

Thank you for your cooperation and assistance in this inventory program. If you have any questions, plasse call me at (205) 271-7,728.

Sincerely,

Staphen C. Haurer RCRA 3012 Program Manager Land Division

SCH:bw

cc: Mr. Faul Rierstine, EFS, Inc.

RCRA 3012 SITE SCREENING STUDY FORM

EPS Project Manager: Will Warren Date: 09/21/84

SITE INFORMATION

EPA I.D. No: ALD 980559470

Site Name: JWR Flat Top Nebo Mine Street: Route 1

City: Graysville County: Jefferson State: Alabama

Site Owner: Jim Walter Resources, Inc.

Site Manager: Mr. Winston McGill Phone No: (205) 254-7042

Address: Brookwood, Alabama

Purpose of Study: To collect environmental and waste samples on and around

the site to determine and characterize any hazardous

materials present.

Site Sketch Attached: Yes X No (Topo Only)

SITE BACKGROUND

Site Description (including Waste Types and Dispositions):

Idle coal mine. Notified for possible solvents, etc. in waste piles of mining overburden.

METHODOLOGY

All sample collection, sample preservation and chain-of-custody procedures used during this investigation will be in accordance with the standard operating procedures as specified in the Quality Control/Quality Assurance Plan for the Analytical and Environmental Division of Environmental Protection Systems, Inc., revised August 31, 1984. All laboratory analyses and quality assurance procedures used during this investigation will be in accordance with standard procedures and protocols as specified in the Quality Control/Quality Assurance Plan for the Analytical and Environmental Division of Environmental Protection Systems, Inc., revised August 31, 1984, or as specified by the existing United States Environmental Protection Agency standard procedures and protocols for the contract analytical laboratory program.

SAMPLING REQUIREMENTS

Sample Information:

No. Water Samples: 1 No. Sludge Samples:	No. Soil/Sediment Samples: 3 Other:			
Split Samples Requested?:	_ Yes	No	Unknown	
If yes, reason:				

·		0		W-4-1-		
<u>Station</u>	Туре		ganics B/N Pest	Metals Total EPT	<u>XOA</u>	<u>Other</u>
NM-WA1-WP	Water/Grab	X	X	X	X	X
NM-SD1-WP	Sed./Comp.	X	X	X	X) x
NM-SD2-WP	Sed./Comp.	X	X	X	X	Not taken X
NM-S01-AS	Soil/Comp.		X	X	CX	X
NM-WAZ-SI	Water / Grap	×	×	×	×	×
NM-WAZ-SI NM-S034SI	Sed / Comp	Х	×	X	¥	×
TOTALS:	ı			Menifest #	440 2	222

Water	1
Soil	1
Sediment	2
Sludge Other	

LABORATORY RESOURCE REQUIREMENTS

Anticipated Date(s) of Sample Delivery: October/November 84

Analytical Needs:

<u>Analysis</u>	Water Samples	Soil Samples	<u>Totals</u>
Organics Acid Extractables: Base/Neutrals: Pesticides: Organics (Other:): Total Metals	1	3 3	4
(Specified:): EP Toxic Metals (Specified: All): YOA: Other: Cyanide	1 2 1	3 2 3	4 * 2 4

PERSONNEL REQUIREMENTS

Field Personnel:

REGULATORY COORDINATION

EPA Project Officer: Joel Veater Phone No. 404/881-2234

Location: Atlanta, Georgia

Local Agency Contact: Steve Maurer Phone No. 205/271-7728

Location: Montgomery, Alabama

PROJECT SCHEDULE

Site Screening Study Form Transmittal Date:

Field Study Date:

Anticipated Data Receipt Date:

Station Number

NM-WA1-WP

Same

Comp. I NM-SD1-WP

NM-SD2-WP

NM-S01-AS

· NM - WAZ - SI

, NM- S03-SI

Remarks

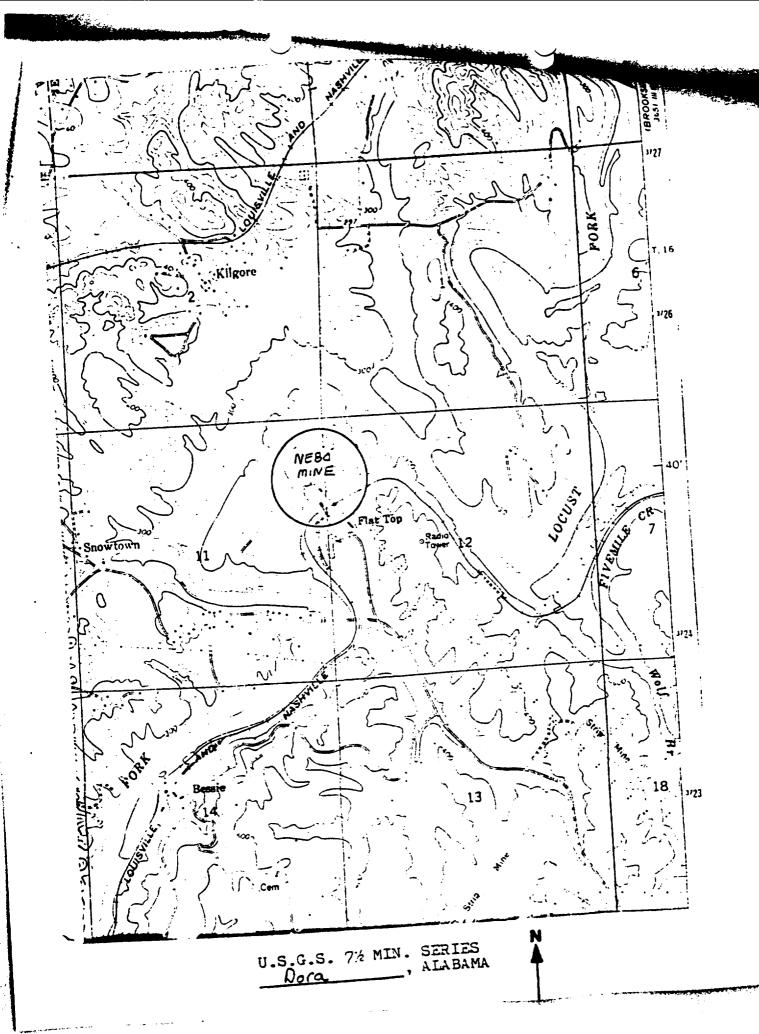
Nebo Mine water sample (grab) from waste pile leachate.

Nebo Mine sediment composite from waste pile.

Nebo Mine sediment composite from waste pile.

Background soil sample.

Surface impoundment



ENVIRONMENTAL PROTECTION SYSTEMS, INC. RCRA 3012 SITE SAFETY PLAN

A. GENERAL INFORMATION

SITE: Jim Walter Resources Flat Top			EPA NO.: ALD980559470
LOCATION	: Route 1, Gra	ysville, AL	
PLAN PRE	BY:	J. Bierstine Griff, Jr., Ph.D., P.	DATE:
OBJECTIVE site.	E(S): To deter	mine if there are any	hazardous contaminants on the
PROPOSED	DATE OF INVES	STIGATION:	
BACKGROU	ND REVIEW:	Complete: X	Preliminary:
DOCUMENT	ATION/SUMMARY:	OVERALL HAZARD:	Serious: Moderate: Unknown:
		B. SITE/WASTE CHARA	
			Sludge: Gas:
CHARACTE	RISTICS: Corro Toxic: X Other	Reactive: (Name):	_ Radioactive: Volatile:_X Unknown:_X
FACILITY		Inactive coal mine wi ents in overburdened	th CERCLA notification for waste pile.
	Principal Dison-site.	posal Method (type an	d location): Waste pile
	Unusual Featu	res (dike integrity,	power lines, terrain, etc.):
	Status: (act	ive, inactive, unknow	n) Idle
	History: (Wo	rker or non-worker in vious agency action):	jury; complaints from public: Unknown

C. HAZARD EVALUATION Respiratory hazard very low. Direct contact to be avoided					
D. SITE SAFETY WORK PLAN					
PERIMETER ESTABLISHMENT: Map/Sketch Attached X Site Secured? Perimeter Identified? Zone(s) of Contamination Identified?					
PERSONAL PROTECTION Level of Protection A B C D X Modifications: Surveillance Equipment and Materials: TYVEK booties, splash goggles, hard hats, gloves, safety line, if needed.					
DECONTAMINATION PROCEDURES: Dispose of TYVEK booties and gloves Special Equipment, Facilities, or Procedures:					
SITE ENTRY PROCEDURES: Permission of owner/operator should be obtained before entry.					

Team Member Responsibility

WORK LIMITATIONS (Time of day, etc.): Daylight hours

INVESTIGATION-DERIVED MATERIAL DISPOSAL: Samples will be sent to the laboratory for analysis. Samples will then be disposed of by the laboratory.

E. EMERGENCY INFORMATION

LOCAL RESOURCES

Ambulance: (205) 324-8557

Hospital or Emergency Room: (205) 592-1400

Poison Control Center: 1-800-462-0800 or 1-800-292-6678

Police: (205) 674-5643

Fire Department: (205) 674-7711

Airport:

Explosives Unit:

EPÀ Contact: (404) 881-2234/Ms. Camilla Warren

SITE RESOURCES

Water Supply: Unknown Telephone: Unlikely

Radio:

Other: First aid kit in EPS vehicle

EMERGENCY CONTACTS

Mr. Dan Cooper, ADEM, (205) 271-7732 EPA Emergency Spill Center (404) 881-4062

F. EMERGENCY ROUTES

(Give road or other directions; attach map)

Hospital:

Other:

					A SHARE WATER BOTH	LV. C SERVICE CONTRACT		
SFPA	\ —	HAZARDOUS WAS			REC	V AL	NUMBER 198055	9470
File this form in the regional Haz System: Hazardous Waste Enforce	ardous Waste Lo	og File and submit	s copy to: U					
Jystem, Mazardous Hagte Emoret		I. SITE IDENTI		THE COL, D	- 20100		*****	
A. SITE NAME	N	,	BUSTREET		· ····	 		
Jim Welter Resources	Hat lop !	Vebr Mine	Kowle _	<u>L</u>		E. ZIP CO	DE	
Consults	•		AL			354		
Grapville		II. TENTATIVE			~~~~ ~~~~~	1		
Indicate the recommended action(s) and agency(ie				in the appr	ropriate bo	xes.	
pr.	COMMENDATION					ACTION .	AGENCY	
				MARK'X'	EPA	STATE	LOCAL	PRIVATE
A. NO ACTION NEEDED NO HAZ	ARD			<u> </u>		Strain a		
B. INVESTIGATIVE ACTIONISI NEE	DED (If yes, com	plete Section III.)						
C. REMEDIAL ACTION NEEDED (11								
ENFORCEMENT ACTION NEEDED by primarily managed by the EPA is anticipated.)	D (if yes, specify or the State and w	in Part E whether the	ne case will ant action					
E. RATIONALE FOR DISPOSITION	,	1	. , ,	4 .11		.,		_
103c - 55 gal	of solve	ents/or/ w	r land	F-11-	res	idire i	n ca	ns,
4	U	,						
spillage.								
F. INDICATE THE ESTIMATED DAT	E OF FINAL DIS	POSITION	G. IF A CASE	DEVE: CO	MENT DI A	N IS NECES	CARY INDI	CATE THE
(mo., day, & ye.)	t or Final Dis	,, o 3, 1 10 N		C DATE O			LL BE DEV	
			(2101, 20),	. , , , ,				
H. PREPARER INFORMATION			 					
1. NAME Camilla War	A.O		2. TELEPHO				TE (mo., da)	y, & y r.)
				ETS 257-2234 11/06/84				
A. IDENTIFY ADDITIONAL INFORM		INVESTIGATIVE A						
State screening					•			
3,1000	g							
B. PROPOSED INVESTIGATIVE ACT	FINITY (Despited	to do um add 2						
B. PROPUSED INVESTIGATIVE AC	TVITT (Detailed	Intometion)	<u> </u>	т				
1. METHOD FOR OBTAINING	2. SCHEDULED DATE OF ACTION	PERFORMED BY	4.				_	
NEEDED ADDITIONAL INFO.	(mo,day, & yr)	(EPA, Con- tractor, State, etc.)	ESTIMATED MANHOURS	'		5. REMARK		
111 Scilling		State	·	weu	surve	y		
- = =		Contractor		<u> </u>		<u> </u>		
(2)			1					
(3)							·.·	
L TYPE OF MONITORING								
		 						
(2)								
É. TYPE OF SAMPLING								
(1)	1	<u> </u>	:		'			
(2)								
	1	1	1					

Site Name: JIM WALTER RESOURCES FLAT TOP NEBO MINE	
Site Number: <u>ALD 980559470</u>	
Owner: JIM WALTER RESOURCES INC-MINING PIV.	
Operator: JIM WALTER RESOURCES INC MINING DIV.	
Site Status: Active Inactive Unknown	
Priority: High Medium Low None	
, and the second of the second	
3. FINAL DISPOSITION	
I. EPS Final Review - Date: 9/12/184 Comments:	
Site Inspection Required / Yes / No	
II. ADEM Review - Date: 10/10/84 SCM Comments:	
Follow-up Action Required Yes / No	
III. Final Disposition: Review & revise Date:	
Edited & correct Date: Transmitted Date:	
File close-out Date:	
Initiate site inspection Date:	
4. ADDITIONAL COMMENTS (ONGOING & FINAL)	
•	
	44.0
	_
	Person

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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

I. IDENTIFICATION						
AL.	02 SITE NUMBER (1) 4 80 55 9 470					

PART 1 - SITE INFORMA	TION AND ASSESSI	MENT AL 1	10 980 539470
II. SITE NAME AND LOCATION			
Jim Walter Resources Flat Top Nebo Mine	Route 1	·	
Graysville	04 STATE 05 ZIP CODE AL 35444	Jefferson	07COUNTY 08 CONG CODE DIST 073 06
09 COORDINATES (ATITUDE LONGITUDE 3 3 40 00. 087 01 23.			
10 DIRECTIONS TO SITE (Starting from neareg) public road) From int. of U.S. Hwy 78 k 12 (North west) approx! 3 miles	Hwy 12 is s to Flat	Top (Nebo M.	take they ne).
III. RESPONSIBLE PARTIES			
01 OWNER (# known)	02 STREET (Business, melling		-
Jim Watter Resources Inc Mining Div.	Hwy 216	, P.O. Box 11	3
O3 CITY	04 STATE 65 ZIP CODE	06 TELEPHONE NUMBER	I
Brook wood	AL 35444	4 1205 254-7092	
97 OPERATOR (If known and different from owner)	08 STREET (Business, malling	2, rasidential)	<u> </u>
Same as above			
ое стту	10 STATE 11 ZIP CODE	12 TELEPHONE NUMBER	
13 TYPE OF OWNERSHIP (Check one) Dr A. PRIVATE D B. FEDERAL: (Agency name) D F. OTHER: (Specify)	LI C. STA	ATE (D.COUNTY (E. M.L.	JNICIPAL
14 OWNER/OPERATOR NOTIFICATION ON FILE (Check all that apply)			٠٥ عــــا
[] A: RCRA 3001 DATE RECEIVED: / / B. UNCONTROLL	ED WASTE SITE (CERCLA)	103 c) DATE RECEIVED: MONTH D	3/8/ LI C. NONE
IV. CHARACTERIZATION OF POTENTIAL HAZARD			21
01 ON SITE INSPECTION BY (Check all that apply)		· · · · · · · · · · · · · · · · · · ·	
MONTH DAY YEAR [] E. LOCAL HEALTH OFFI			CONTRACTOR
CONTRACTOR NAME(S):			
02 SITE STATUS (Check one) 13 A. ACTIVE 14 B. INACTIVE 17 C. UNKNOWN 03 YEARS OF OPER.	1890'S V	esent UNKNOW	'N
04 DESCRIPTION OF SUBSTANCES POSSIBLY PRESENT, KNOWN OR ALLEGED CERCLA natification for over 5. in cons & spillage over the	5 gal. al	solvent foil	residues
in cons & spillage over the	life of +	the mine.	Empty cons
are mixed in waste pile with	mining over	nburden.	•
05 DESCRIPTION OF POTENTIAL HAZARD TO ENVIRONMENT AND/OR POPULATION		7600	
presently idle, but runoff is still day hazandous waste potentially identified	Il regulate	ed by NPPE	mine is permit.
Only hazardous waste potentially lanti	fied is s	solvent tilm	in empty
Cans buried in overbuden.			
V. PRIORITY ASSESSMENT			
O1 PRIORITY FOR INSPECTION (Check one. If high or medium is checked, complete Part 2: Weste Infant [] A. HIGH [Inspection required promptly) [Inspection required promptly] [Inspection required promptly]	E D. NO	· ·	ระเหล (ดภร)
VI. INFORMATION AVAILABLE FROM			
01 CONTACT 02 OF (Agency Organic)	ation)		03 TELEPHONE NUMBER
Steve Maurer SON ADEN	-		(205) 271-7728
Paul Bientine, P.E 05 AGENCY	EPS	1601 1922 - 8242	OB DATE 9 12 84

2	FPΔ	
7		į

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT PART 2 - WASTE INFORMATION

	TIFICATION	
OI STATE	02 SITE NUMBER 1 984 559	470

PART 2 · WASTE INFORMATION							
II. WASTE ST	TATES, QUANTITIES, A	ND CHARACTER	HISTICS				
O1 PHYSICAL STATES (Check of that apply) U A. SOLID B. POWDER, FINES G. G. GAS O2 WASTE QUANT (Measures of must be purely TONS			D PERSISTENT : H. IGNITABLE L. L. INCOMPATIBLE				
🗀 D. OTHER	(Specify)	1				€1 M. NOT AP	PLICABLE
NI. WASTE T	YPE		······································			· · · · · · · · · · · · · · · · · · ·	
CATEGORY	SUBSTANCE	NAME	01 GROSS AMOUNT	02 UNIT OF MEASURE	03 COMMENTS		
SLU	SLUDGE		1				
OLW	OILY WASTE						
SOL	SOLVENTS						
PSD	PESTICIDES						
occ	OTHER ORGANIC C	HEMICALS					
ЮС	INORGANIC CHEMI	CALS					
ACD	ACIOS						
BAS	BASES						
MES	HEAVY METALS		<u> </u>				
IV. HAZARDO	OUS SUBSTANCES (See	Appendix for most freque	ntly cited CAS Numbers)				
01 CATEGORY	02 SUBSTANCE	NAME	03 CAS NUMBER	04 STORAGE/DISE	POSAL METHOD	05 CONCENTRATION	06 MEASURE OF CONCENTRATION
				<u> </u>		<u> </u>	
							<u> </u>
Y EEEDSTO	CKS (See Appendix for CAS Numi	*		<u> </u>		L	<u> </u>
CATEGORY	O1 FEEDSTO	• • • • • • • • • • • • • • • • • • • •	02 CAS NUMBER	CATEGORY	01 FEEDSTO	~~~	-2.010.0000
FDS	O F F E E DO TO	UK NAME	UZ CAS NUMBER	 	UIFEEGGI	JCK NAME	02 CAS NUMBER
			 	FDS			
FD6				FDS			
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FDS		-		FDS			/
	S OF INFORMATION ICH				-^-		
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POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

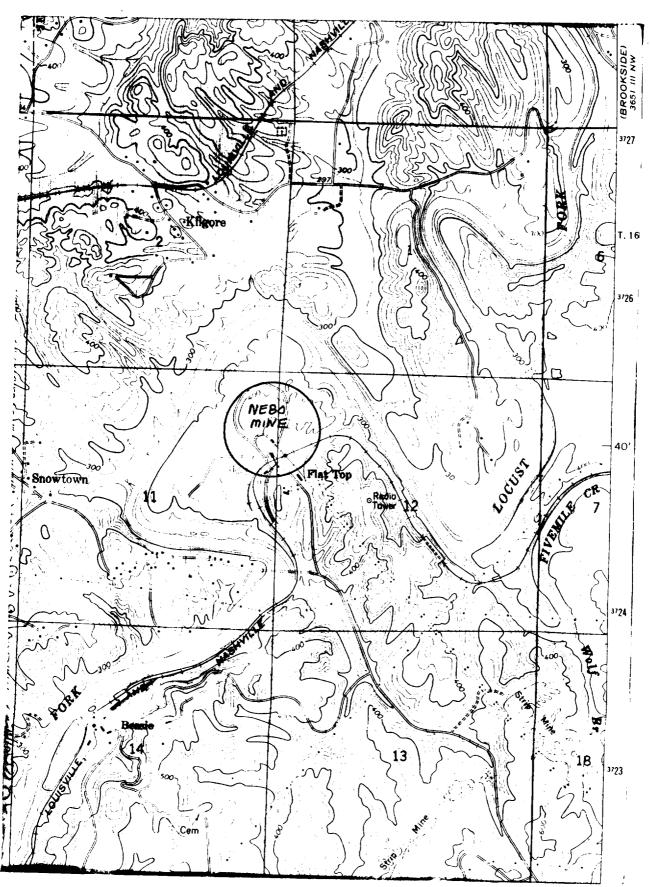
	ı,	MEN	iiricai	IUN
ł	01	STATE	02 SITE	NUMBER
ì				

PART 3 - DESCRIPTION OF HAI	ZARDOUS CONDITIONS AND INCIDENT	8	
N. HAZARDOUS CONDITIONS AND INCIDENTS (Continued)			
01 [] J. DAMAGE TO FLORA 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	D POTENTIAL	C) ALLEGED
01 [] K. DAMAGE TO FAUNA 04 NARRATIVE DESCRIPTION (Include name(s) of species)	02 (1 OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
01 D L. CONTAMINATION OF FOOD CHAIN 04 NARRATIVE DESCRIPTION	02 C OBSERVED (DATE:)	☐ POTENTIAL	() ALLEGED
01 M. UNSTABLE CONTAINMENT OF WASTES (Spills/funof/referriding liquide/leaking drume) 03 POPULATION POTENTIALLY AFFECTED:	02 OBSERVED (DATE:) 04 NARRATIVE DESCRIPTION	☐ POTENTIAL	□ ALLEGED
01 N. DAMAGE TO OFFSITE PROPERTY 04 NARRATIVE DESCRIPTION	02 [] OBSERVED (DATE:)	D POTENTIAL	□ ALLEGED
01 [] O. CONTAMINATION OF SEWERS, STORM DRAINS, WWTPs 04 NARRATIVE DESCRIPTION	02 🗆 OBSERVED (DATE:)	☐ POTENTIAL	□ ALLEGED
01 P. ILLEGAL/UNAUTHORIZED DUMPING 04 NARRATIVE DESCRIPTION	02 D OBSERVED (DATE:)	□ POTENTIAL	D ALLEGED
05 DESCRIPTION OF ANY OTHER KNOWN, POTENTIAL, OR ALLEG	DED HAZARDS		· · · · · · · · · · · · · · · · · · ·
M. TOTAL POPULATION POTENTIALLY AFFECTED: IV. COMMENTS			
V. SOURCES OF INFORMATION (Cite specific references. e.g., state files, a	ample enalysis, reports)		

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT

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1	01	STATE	02 SIT	NUMBER

PART 3 - DESCRIPTION OF MAZARDOUS CONDITIONS AND INCIDENTS II. HAZARDOUS CONDITIONS AND INCIDENTS ALLEGED 01 A. GROUNDWATER CONTAMINATION 02 [] OBSERVED (DATE: .. [] POTENTIAL 03 POPULATION POTENTIALLY AFFECTED: **04 NARRATIVE DESCRIPTION** 01 [] B. SURFACE WATER CONTAMINATION 03 POPULATION POTENTIALLY AFFECTED: 02 DOBSERVED (DATE: .. □ POTENTIAL ☐ ALLEGED **04 NARRATIVE DESCRIPTION** 01 [] C. CONTAMINATION OF AIR 02 () OBSERVED (DATE: . ☐ ALLEGED □ POTENTIAL 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION 01 D. FIRE/EXPLOSIVE CONDITIONS 02 COBSERVED (DATE: D POTENTIAL 13 ALLEGED 03 POPULATION POTENTIALLY AFFECTED: ___ 04 NARRATIVE DESCRIPTION 01 DE. DIRECT CONTACT 02 OBSERVED (DATE: [] POTENTIAL □ ALLEGED 03 POPULATION POTENTIALLY AFFECTED: ____ **04 NARRATIVE DESCRIPTION** 01 [] F. CONTAMINATION OF SOIL 02 LI OBSERVED (DATE: [POTENTIAL [] ALLEGED 03 AREA POTENTIALLY AFFECTED: **04 NARRATIVE DESCRIPTION** (Acres) 01 [] G. DRINKING WATER CONTAMINATION 02 LI OBSERVED (DATE: [] POTENTIAL [] ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION 02 [] OBSERVED (DATE: 01 [] H. WORKER EXPOSURE/INJURY ☐ POTENTIAL [] ALLEGED, 03 WORKERS POTENTIALLY AFFECTED: __ **04 NARRATIVE DESCRIPTION** 01 [] I. POPULATION EXPOSURE/INJURY 02 [] OBSERVED (DATE: [] POTENTIAL [] ALLEGED 03 POPULATION POTENTIALLY AFFECTED: 04 NARRATIVE DESCRIPTION



U.S.G.S. 7½ MIN. SERIES

Doca, ALABAMA



RECORD OF PHONE CONVERSATION

TO:

Mr. Winston McGill

Jim Walter Resources, Inc.

Central Mining Office

Brookwood, AL 205/556-6000

FROM:

Jennifer Scott-Simpson, E&E

(C.

Joel Veater, EPA

REFERENCE:

TDD # F4-8204-10

DATE:

5-14-82

I explained to Mr. McGill that I had been tasked by EPA to gather more specific information on their CERCLA notification sites in Alabama. Mr. McGill stated that the person responsible for filing these six sites with EPA no longer worked with Jim Walter Resources, Inc. Therefore, he would need to review the information included on the forms before he could offer any comments on the sites. Mr. McGill also requested a written explanation of the types of information that I was seeking. I explained that I would have to confer with EPA before I sent him a letter and that I would be in touch with him again later.

6-11-82

I told Mr. McGill that a letter to him had been drafted but due to Region IV's investigative priorities, the project had been temporarily placed on hold. Mr. McGill responded positively and agreed that perhaps we would talk again sometime in the future.

()

____TENT: AL HAZAKUOIS WASTE SI PRELIMINARY ASSESSMENT EPS FORM 3012-I

No. <u>ALD 980 5394</u>° Name

EPS ANALYST/REVIEWER CHECKLIST

Instructions:

To be used in conjunction with APA Form 2070-12 (7-81). Attach on inside front of site folder. Initial and date for all assessment entries under appropriate part/subpart as completed. Initial/date in black for final assessment; in real higher level (additional) assessment is in order. Follow same procedure for

review process.

Review Codes:

1-Toxicology Review; 2-Chemical Review; 3-Ecology Review; 4-Chemical Engineer

Review; 5-Geotechnical Review; 6-Project Manager Review; 7-Final Review

Form 2070	Analyst/	Review	Review	Review	Review	Review	Review	Review
Part Number	Date	Code 1	Code 2	Code 3	Code 4	Code 5	Code 6	Code 7
.IVI.	Parti				 	 	14. 1010	Juny12
_	NFA 9/12/84				 	ļ	funghz	JWWY 10
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e.III.		·	<u> </u>		`	<u> </u>	 	
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B.II.B				<u> </u>			<u> </u>	
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PRELIMINARY ASSESSMENT EPS FORM 3012-II

TELEPHONE LOG SHEET

1.	Site Identification:
	Site number: ALD 980 559 470
	Site name: Jim Walter Resources Flat Top Nesso Mine
2.	Interview Data: (Party called)
	Name: Mr. Winston McGill
	Position: Environmental Coordinator
	Firm: Jim Walter Resources Central Mining office
	Address: - Hwu-26, 10. Bex 113 /-
	hrndkwood, AL 35444
	Telephone No.: (205), 254 - 7052
3.	EPS Analyst Data:
	Name: Paul Bierstine
	Purpose of call: Unite data an CERCLA nativication
	the second secon
	Form 2070-12 (7-81) P.N.
	Date of call: 9/12/84
4.	Interview Narrative Summary: MA. McGill Atlet this mine
	was prosently ille, subject to status when economic
	conditions implane. This mire has been worked since
	belong the true at the century. He did not known
	Vit the (ERLA Institication I was accurate records
	the annual of solvent jexulus sevent since
	no records exist sourcing this dispused
	<u> </u>
	The state of the s
5.	Disposition/Comments:
	The state of the s
-	the state of the s
	•
6.	Comments: Any additional sites used by this company?
	Location:
	Dates of use:
	Description of waste:
	Comments:

POTENTIAL HAZARDOUS WASTE SITE PRELIMINARY ASSESSMENT EPS FORM 3012-III

INDUSTRIAL NARRATIVE SHEET

1. Site Identification:

Site number: ALD980559470

Site name: Jim Walter Resources Flat Top Nebo Mine

Site county: Jefferson

2. Industrial Narrative Summary:

Company Name: Jim Walter Resources - Control Mining Office

Address: Hwy 216, P. O. Box 113

Brookwood, AL 35444

Telephone No.: 205/254-7042

Contact: Mr. Winston McGill

Discussion: This site is an underground coal mine, presently idle, which has a CERCLA 103 (c) notification for over 55 gallons of solvents/oils in the form of residues in empty cans and spillage. Empty cans are buried in the mining overburden waste pile. Runoff from site is regulated by NPDES permit. Since this mine has operated since before 1900 and ponds are nonexistent, this mine could be investigated on a low priority basis as probably representative of all coal mines in this area. Very little information was developed regarding realistic disposal amounts and types of solvents used.

3. <u>Disposition</u>:

Priority for inspection in low.

4. Comments:

ENVIRONMENTAL PROTECTION SYSTEMS, INC. Alabama RCRA 3012 Site Ranking Scheme EPS Form 3012-V

Site Name Flat Top Nebo Mine Site Number ALD 980 559 470

Preliminary Assessment Ranking Scheme to Determine Which Sites Merit Further Action.

(Select one answer for each of the following seven questions)

1.	Are Hazardous Substances Present?	
	A. Confirmed on site!	10 points /
	B. Suspected at site!	5 points \square
	C. It is unknown!	2 points
	D. No hazardous substances	0 points
	E. RCRA facility only!	0 points
	• •	
2.	Is There a Pollution Dispersal Pathway?	
	A. Direct to surface and/or groundwater.	5 points
	B. Indirect to surface and/or groundwater.	4 points
	C. Suspected to surface and/or groundwater.	3 points
	D. Not known for sure.	2 points
	E. No pathway.	0 points
3.	Characteristics of Human Population?	
	A. High density.	5 points
	B. Medium density.	4 points
	C. Low density.	3 points
	D. No population.	2 points
	• •	
4.	Characteristics of Natural Environment?	
	A. Critical habitat including endangered	
	species, etc.	5 points
	B. Sensitive habitat.	3 points
	C. Common less sensitive habitat.	2 points
5.	How is Human Population Affected By Site?	
	A. Public utility of drinking water	
	from site.	5 points
	B. Direct public access to site.	4 points
	C. Public access to affected	
	surface water.	3 points
	D. Only potential for human	
	population contact.	2 points 🗸
	E. Low or no potential for contact.	1 point
_		
6.	Facility Management Practices at Site?	
	A. Site actively supervised and managed	,
	currently with monitoring reports and	
	other permit and report requirements.	1 point/
	B. Site inadequately managed records	
	not up-to-date.	3 points

C. Site not currently managed or regulated.

D. Abandon site.

7. Potential Responsible Parties for Site Operations?

A. Controlling party identified and accepts responsibility for site.

B. Suspected controlling party identified but does not accept responsibility for site.

C. No responsible party available.

4 points

4 points

5 points

Ranking Score =

$$\frac{5}{11} \times \frac{2}{12} + \frac{2}{14} + \frac{2}{13} \times \frac{2}{15} + \frac{1}{16} + \frac{1}{17}$$

TABLE 1. Ranking Assessment

NUMERICAL RANGE	PRIORITY ASSESSMENT
0-50	NONE
50-150	LOW
150-300	MEDIUM
300-450	HIGH

Ranking Score: 50

Priority Assessment: LOW



JULY 8, 1981

Environmental Protection Agency U. S. EPA Region 4 Sites Notification Atlanta, GA 30308

SUBJECT: SUPERFUND NOTIFICATION

Dear Sirs:

Through further consideration and interpretation of the regulation concerning Hazardous Substances Notification, we are reporting that we may have disposed of a total greater than 55 gallons of solvents and/or oils over the life of the plant operation. This disposal can only be attributed to disposal into land fills of cans with residues and incidental spillages of these materials. No harmful effects to the environment are expected.

Sincerely,

Randall Long Resident Engineer

RL/pa

cc: Mr. J. Coleman

Mr. C. Pierce

Randall Long

Mr. B. Pollard

Mr. L. Colburn

Mr. W. McGill

Mr. K. Branton

Notification of Hazardous Waste Site

United States
Environmental Protection Agency Washington DC 20460

This initial notification information is required by Section 103(c) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 and must which applies.

Please type or print in ink, if you need additional space, use separate sheets of paper. Indicate the letter of the item which applies.

810713

	be mailed by June 9, 1981.			•	A	LS00	000	1199
Ā	Person Required to Notify: Enter the name and address of the or organization required to notify		Street H	ighway 21	Resources, I 6, P. O. Box	nc.—Mining	Division	
			City B	rookwood		State AL	Zip Cude 354	444
8	Site Location: Enter the common name (if know actual location of the site.	wn) and	Name of Site	Route 1	p/Nebo Mine			
	······································		CHY G	raysville	County Jeffers	On State AL	Zip Code 3	5073
C	Person to Contact:				Cama Dandall	Dogiđen	de Domina	
	Enter the name, title (if applicable business telephone number of the to contact regarding information submitted on this form.	ne person	Phone		Long, Randall -7042	. Residen	t Engineer	
D	Dates of Waste Handling: Enter the years that you estimate treatment, storage, or disposal be ended at the site.		From (Year)	-	To (Year)			
Ε	Waste Type: Choose the option. Select general waste to you do not know the general waste in encouraged to describe the site in General Type of Waste: Place an X in the appropriate boxes. The categories listed overlap. Check each applicable category.	ypes and so sie types of in Item I—C	ource catego r sources, yo	ries. If u are f Site. propriate	Option 2: This option Resource Conservative gulations (40 CFR Specific Type of WEPA has assigned a listed in the regulating the list of hazardous contacting the EPA	ion and Recovery Part 261). aste: four-digit numbe ions under Sectio it number in the s wastes and code	Act (RCRA) Se or to each haza in 3001 of RCR boxes provided es can be obtai	rdous waste IA. Enter the A copy of Ined by
-	1. POrganics 2. Inorganics 3. Solvents 4. Pesticides 5. Heavy metals 6. Acids 7. Bases 8. PCBs 9. Mixed Municipal Waste 10. Unknown 11. Other (Specify)	3. ☐ Te 4. ☐ Fe 5. ☐ Pa 6. ☐ Le 7. ☐ Iro 8. ☐ Ch 9. ☐ Pli 10. ☐ Mi 11. ☐ Elc 12. ☐ Tr 13 ☐ Ut 14 ☐ Sa 15 () Pli 16 () La 17 ☐ Ur	instruction xtiles rilizer per/Printing ather Tannin in/Steel Fou pemical, Genating/Polishi ilitary/Ammi ectrical Condansformers ility Companinitary Refusiotofinish b Hospital	ndry eral ng unition luctors	located.	JUL 13 1 47 PM ENFORCESE DIVISION	RECEIVED EPA/REGION	00017
	1 orm Approved 1938 So. 2000 0138				•	2 -	l-vl	

21		16, No. 72 / Wednesday, April	There ::			
-	Notification of Hazardous Waste Site	Side Two				<u> </u>
	Waste Quantity	Facility Type	Total Fa	cility Waste A	Amount	
	Place an X in the appropriate boxes to indicate the facility types found at the site.	1. 🖸 Piles 2. 🗇 Land Treatment	cubic firet			·
	In the "total facility waste amount" space	3. Landfill	galluns			
	give the estimated combined quantity (volume) of hazardous wastes at the site	4. 🗆 Tanks	Total Fa	cility Area		
	using cubic feet or gallons.	5. D Impoundment	square fee	1		
	In the "total facility area" space, give the estimated area size which the facilities	6. Underground Injection 7. D Drums, Above Ground	acres	ONEHA	I F	
	occupy using square feet or acres.	8. Drums, Below Ground		U I L AIR	<u> </u>	
		9. Other (Specify)				
-	Known, Suspected or Likely Releases to	the Environment:				
	Place an X in the appropriate boxes to indicate or likely releases of wastes to the environment		3 Known	☐ Suspected	□ Likely	None
	Note: Items Hand I are optional. Completing hazardous waste sites." Although completing				cating and	assessi
	Sketch Map of Site Location: (Optional)				
	Sketch a map showing streets, highways, routes or other prominent landmarks near				•	
	the Site. Place an X on the map to indicate					
	the site location. Draw an arrow showing the direction north. You may substitute a	•				
	publishing map showing the site location.				·.	
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	<u> </u>	·				
	Description of Site: (Optional)					
	Describe the history and present	•				
	conditions of the site. Give directions to the site and describe any nearby wells,	•				
	springs, lakes, or housing. Include such information as how waste was disposed			•		
	and where the waste came from. Provide any other information or comments which		•	•		
	may help describe the site conditions.		•	•		
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_		•		· .	·	
	Signature and Title:	0 111 1	•			
	The person or authorized representative	Name Randall Long			D Owner, I	Present ·
	trustees or attorneys) of persons required			ĺ	Owner, I	Past
	to notify must sign the form and provide a smalling address (if different than address	Street			Transpor	
	in item A). For other persons providing	City Slate	Zip Code		S. Operator	
	notification, the signature is optional. Check the boxes which best describe the				□ Operator □ Other	, Past

[FR IAn. 81-11500 Filed 4-14-81, 8:45 am] BILLING CODE 6560-29-C

relationship to the site of the person required to notify. If you are not required to notify check "Other"

SEPA

POTENTIAL HAZARDOUS WASTE SITE IDENTIFICATION AND PRELIMINARY ASSESSMENT

REGION SITE NUMBER (to be as-

NOTE: This form is completed for each potential hazardous waste site to help set priorities for site inspection. The information submitted on this form is based on available records and may be updated on subsequent forms as a result of additional inquiries and on-site inspections.

GEMERAL INSTRUCTIONS: Complete Sections I and III through X as completely as possible before Section II (Preliminary Assassment). File this form in the Regional Hazardous Waste Log File and submit a copy to: U.S. Environmental Protection Force (EN-335); 401 M St., SW; Washington, DC 20460. ALD980559470 **JEFFERSON** WALTER, JIM RESOURCES/FLAT TOP/NEBO MINTREET (or other identifier) ROUTE 1 GRAYSVILLE AL 35073 TATE E. ZIP CODE F. COUNTY NAME LONG, RANDALL, RES ENGR 2052547042 2. TELEPHONE NUMBER H. TYPE OF OWNERSHIP 1. FEDERAL 2. STATE 3. COUNTY 4 MUNICIPAL 5 PRIVATE 6 TO UNKNOWN "103-C NOTIFICATION" DATE: 810713 DAN COOPER OR BUDDY COX K. DATE IDENTIFIED PHONE: 205-832-6728 (mo., day, & yr.) 2. TELEPHONE NUMBER II. PRELIMINARY ASSESSMENT (complete this section last) A. APPARENT SERIOUSNESS OF PROBLEM 4 NONE _____ 2. MEDIUM _____ 3. LOW 1. HIGH 5 UNKNOWN B. RECOMMENDATION 2. IMMEDIATE SITE INSPECTION NEEDED
B. TENTATIVELY SCHEDULED FOR: 1. NO ACTION NEEDED (no hezerd) 3. SITE INSPECTION NEEDED a. TENTATIVELY SCHEDULED FOR: b. WILL BE PERFORMED BY: b. WILL BE PERFORMED BY: 4. SITE INSPECTION NEEDED (low priority) C. PREPARER INFORMATION 1. NAME 2. TELEPHONE NUMBER 3. DATE (mos, day, & yts) III. SITE INFORMATION A. SITE STATUS 2. INACTIVE (Those elies which no longer receive 3. OTHER (specify):
(Those sites that include such incidents like "midnight dumping" where 1. ACTIVE (Those Industrial or municipal sites which are being used for waste treatment, storage, or disposal on a continuing basis, even if introwastes,) no regular or continuing use of the site for waste disposal has occurred.) B. IS GENERATOR ON SITE? ____ 1. NO 2. YES (epecify generator's four-digit SIC Code): D. IF APPARENT SERIOUSNESS OF SITE IS HIGH, SPECIFY COORDINATES C. AREA OF SITE (in acres) 2. LONGITUDE (deg.-min.-sec.) 1. LATITUDE (ded,-min,-sec.) E. ARE THERE BUILDINGS ON THE SITE! 2. YES (opecity):

Co	ntinued From Front								·			<u> </u>
				ΙV	. (HARACTERIZAT	101	OF SITE ACTIVITY	1			
In	licate the major sit	e acti	ivity(ies) an					vity by marking 'X' i		ropi	iate boxes	•
' X '	A. TRANSPOR	TER	x '	E	9. 9	STORER	×	C. TREATER	₹	× :	0	. DISPOSER
	1. RAIL			PILE				1. FILTRATION			I. LANDFII	LL
	2. SHIP		2. 9	SURFA	C E	IMPOUNDMENT		2. INCINERATION			2. LANDFA	RM
	3. BARGE		3. (DRUMS	_			3. VOLUME REDUCT!	ON		. OPEN DI	JWb
	4. TRUCK		4.	TANK,	A B	OVE GROUND		4. RECYCLING/RECO	VERY		4. SURFAC	E IMPOUNDMENT
	5. PIPELINE		5.	TANK,	BE	LOW GROUND		5. CHEM./PHYS. TRE	ATMENT		5. MIDNIGH	T DUMPING
	6. OTHER (specify):		6. (OTHER	(5	pecify):		6. BIOLOGICAL THE	THENT		6. INCINER	ATION-
								7. WASTE OIL REPRO	CESSING		7. UNDERG	ROUND INJECTION
								8. SOLVENT RECOVE	RY		8. OTHER (specify):
								9. OTHER (specify):				
			İ									1
_	E. SPECIFY DETAILS OF SITE ACTIVITIES AS NEEDED											
						V. WASTE RELAT	EC	INFORMATION				
A.	WASTE TYPE		· — · · · · — · · · · — · · · · · · · ·		-							
				[]3.	sc	OLID [[]]4.	SLL	IDGE []5. G	AS			
	WASTE CHARACTES			 ,		5 :3						;
_								DIOACTIVE5 H	IGHLY VO) L. A	TILE	
١.	6 TOXIC	7 / HI	EACTIVE	[_]e	IN	ERT []	FL	AMMABLE				
-	10. OTHER (specif									var u		
	WASTE CATEGORIE . Are records of wast		ilable? Spec	cify iter	ns	such as manifests, i	nve	ntories, etc. below.				
			•									
L			····									
2	. Estimate the amo	unt(s)	pecify unit	of mea	su	re)of waste by cat	ego	ry; mark 'X' to indic	ate which	we	stes are p	resent.
	a. SLUDGE		b. OIL			c. SOLVENTS	1	d. CHEMICALS	<u> </u>		IDS	f. OTHER
AM	OUNT	AMOL	JNT	ĺ	A M	DUNT	^	MOUNT	AMOUNT			AMOUNT
UN	IT OF MEASURE	UNIT	OF MEASUR	; -	UN	IT OF MEASURE	- -	NIT OF MEASURE	UNIT OF	ME	ASURE	UNIT OF MEASURE
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Ĥ	(1) PAINT. PIGMENTS	 ` ''	VASTES		^	(1) HALOGENATED SOLVENTS	12	ITIACIDS	X GO FIL	Y A 5	н	(1) PHARMACEUT.
-					_		+		 			
	(2) METALS SLUDGES	1 ⁽²	OTHER(spe	ecity):		12) NON-HALOGNTI SOLVENTS	ì	(2) PICKLING LIQUORS	(2) A S	9 E. S	TOS	(2) HOSPITAL
		[t	7		t		raimi			
	(9) POTW	1		ŀ		(3) OTHER(specify)	ı	(3) CAUSTICS			TAILINGS	(3) RADIOACTIVE
	(4) A LUMINUM	1		- 1			t					
ı	SLUDGE			1				(4) PESTICIDES	:41 SM	1. 1 0	OUS L. WASTES	(4) MUNICIPAL
	(5) OTHER(specify):	1					1				E B B O U S	(SIOTHER(specify):
	(S) O HER (apociny).							(6) DYES/INKS	(5) 514	LTC	ERROUS G. WASTES	Laro Her(apocy).
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		İ		[(6) CYANIDE				
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		ł		j			l	(71PHENOLS	}			
		1				,		(8) HALOGENS				
		l		1		•		MALOGENS]			
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				1			1					

٧.	WASTE	RELA	TEI	DINFOR	HOITAN	(continued)

3. LIST SUBSTANCES OF GREATEST CONCERN	WHICH MAY BE ON THE	SITE (place in descending order of hazard).
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4. ADDITIONAL COMMENTS OR NARRATIVE DESCRIPTION OF SITUATION KNOWN OR REPORTED TO EXIST AT THE SITE.

	VI. HAZARD DESCRIPTION							
A. TYPE OF HAZARD	POTEN- TIAL HAZARD (mark 'X')	C. ALLEGED INCIDENT (mark 'X')	D. DATE OF INCIDENT (mo.,day,yr.)	E. REMARKS				
1. NO HAZARD		2 (40)						
2. HUMAN HEALTH	ļ							
3. NON-WORKER INJURY/EXPOSURE				·				
4. WORKER INJURY								
CONTAMINATION OF WATER SUPPLY								
CONTAMINATION OF FOOD CHAIN								
7. CONTAMINATION OF GROUND WATER								
S. CONTAMINATION OF SURFACE WATER								
9. DAMAGE TO FLORA/FAUNA								
10. FISH KILL								
11. CONTAMINATION								
12. NOTICEABLE ODORS								
13. CONTAMINATION OF SOIL								
14. PROPERTY DAMAGE								
15. FIRE OR EXPLOSION								
e. Spills/Leaking Containers/ Runoff/Standing Liquids								
17. SEWER, STORM DRAIN PROBLEMS								
S. EROSION PROBLEMS								
IS. INADEQUATE SECURITY								
RO. INCOMPATIBLE WASTES								
1. MIDNIGHT DUMPING				·				
2. OTHER (apocity):								

Continued From Front VII. PERMIT INFORMATION A. INDICATE ALL APPLICABLE PERMITS HELD BY THE SITE. 1. NPDES PERMIT 2. SPCC PLAN 3. STATE PERMIT(specify): 4. AIR PERMITS 5. LOCAL PERMIT 6. RCRA TRANSPORTER 7 RCRA STORER 8. RCRA TREATER 9 RCRA DISPOSER 10. OTHER (apecify): B. IN COMPLIANCE? 1. YES ___ 2. NO 3 UNKNOWN 4. WITH RESPECT TO (list regulation name & number): VIII. PAST REGULATORY ACTIONS A. NONE 9. YES (summerize below) IX. INSPECTION ACTIVITY (past or on-going) A NONE B. YES (complete items 1,2,3, & 4 below) 2 DATE OF PAST ACTION (mos, day, & yrs) 3 PERFORMED 1. TYPE OF ACTIVITY 4. DESCRIPTION BY: (EPA/State) X. REMEDIAL ACTIVITY (past or on-going) A. NONE B. YES (complete items 1, 2, 3, & 4 below) 2. DATE OF PAST ACTION (mo., day, & yr.) 3. PERFORMED 1. TYPE OF ACTIVITY BY: (EPA/State) 4. DESCRIPTION

NOTE: Based on the information in Sections III through X, fill out the Preliminary Assessment (Section II) information on the first page of this form.

EPA Form T2070-2 (10-79)

PAGE 4 OF 4